NOTICE OF INTENT

Department of Environmental Quality
Office of Environmental Assessment
Environmental Planning Division

Under the authority of the Environmental Quality Act, R.S. 30:2001 et seq., and in accordance with the provisions of the Administrative Procedure Act, R.S. 49:950 et seq., the secretary gives notice that rulemaking procedures have been initiated to amend the Hazardous Waste regulations, LAC 33:V.Chapters 1, 3, 5, 9, 11, 15, 17, 22, 30, 31, 32, 38, 43, and 49 (Log #HW076*).

This proposed rule is identical to federal regulations found in 64 FR 36465-36490, 7/6/99; 64 FR 52827-53077, 9/30/99; 64 FR 56469-56472, 10/20/99; 64 FR 63209-63213, 11/19/99; 65 FR 14472-14475, 3/17/00; 65 FR 30886-30913, 5/15/00; 65 FR 36365-36367, 6/8/00, which are applicable in Louisiana. For more information regarding the federal requirement, contact the Regulation Development Section at (225) 765-0399 or Box 82178, Baton Rouge, LA 70884-2178. No fiscal or economic impact will result from the proposed rule; therefore, the rule will be promulgated in accordance with R.S. 49:953(F)(3) and (4).

The proposed rule covers the adoption of rules in the RCRA X package for authorization for the portions of the RCRA C program. The specific topics include the following titles: Hazardous Waste Management System; Modification of the Hazardous Waste Program; Hazardous Waste Lamps; NESHAPS: Final Standards for Hazardous Air Pollutants for Hazardous Waste Combustors (MACT Rule); NESHAPS: Final Standards for Hazardous Air Pollutants for Hazardous Waste Combustors, Final Rule, Technical Corrections; Land Disposal Restrictions, Wood Preserving Wastes, Metal Wastes, Zinc Micronutrient Fertilizer, etc., correction; Waste Water Treatment Sludges from Metal Finishing Industry; Organobromine Production Wastes; Organobromine Production Wastes, Petroleum Refining Wastes, Identification and Listing of Hazardous Waste, Land Disposal Restrictions, Final Rule and Correcting Amendments; National Pollutant Discharge Elimination System - Program Regulations Streamlining; Address Changes for USEPA Offices in Washington D.C.; Air Emission Standards; and Formula for Administrative Cost Fee. The hazardous waste regulations for the state must be equivalent to those of the federal in order for the state to be authorized for the new portions of the RCRA program. The basis and rationale for this proposed rule are to adopt recently promulgated regulations in order to maintain equivalency.

This proposed rule meets an exception listed in R.S. 30:2019 (D) (3) and R.S.49:953 (G) (3); therefore, no report regarding environmental/health benefits and social/economic costs is required. This proposed rule has no known impact on family formation, stability, and autonomy as described in R.S. 49:972.

A public hearing will be held on February 28, 2001, at 1:30 p.m. in the Maynard Ketcham Building, Room 326, 7290 Bluebonnet Boulevard, Baton Rouge, LA 70810. Interested persons are invited to attend and submit oral comments on the proposed amendments. Should individuals with a disability need an accommodation in order to participate, contact Patsy Deaville at the

address given below or at (225) 765-0399.

All interested persons are invited to submit written comments on the proposed regulations. Persons commenting should reference this proposed regulation by HW076*. Such comments must be received no later than February 28, 2001, at 4:30 p.m., and should be sent to Patsy Deaville, Regulation Development Section, Box 82178, Baton Rouge, LA 70884-2178 or to FAX (225) 765-5095. The comment period for this rule ends on the same date as the public hearing. Copies of this proposed regulation can be purchased at the above referenced address. Contact the Regulation Development Section at (225) 765-0399 for pricing information. Check or money order is required in advance for each copy of HW076*.

This proposed regulation is available for inspection at the following DEQ office locations from 8 a.m. until 4:30 p.m.: 7290 Bluebonnet Boulevard, Fourth Floor, Baton Rouge, LA 70810; 804 Thirty-first Street, Monroe, LA 71203; State Office Building, 1525 Fairfield Avenue, Shreveport, LA 71101; 3519 Patrick Street, Lake Charles, LA 70605; 201 Evans Road, Building 4, Suite 420, New Orleans, LA 70123; 100 Asma Boulevard, Suite 151, Lafayette, LA 70508; 104 Lococo Drive, Raceland, LA 70394 or on the Internet at http://www.deq.state.la.us/planning/regs/index.htm.

James H. Brent, Ph.D.
Assistant Secretary

**Title 33**
**ENVIRONMENTAL QUALITY**
**Part V. Hazardous Waste and Hazardous Materials**
**Subpart 1. Department of Environmental QualityCHazardous Waste**

**Chapter 1. General Provisions and Definitions**

**' 105. Program Scope**

These rules and regulations apply to owners and operators of all facilities that generate, transport, treat, store, or dispose of hazardous waste, except as specifically provided otherwise herein. The procedures of these regulations also apply to denial of a permit for the active life of a hazardous waste management facility or TSD unit under LAC 33:V.706. Definitions appropriate to these rules and regulations, including *solid waste* and *hazardous waste*, appear in LAC 33:V.109. Those wastes which are excluded from regulation are found in this Section.

* * *

[See Prior Text in A – D.2.l.i]

ii. a copy of the written agreement has been submitted to: Characteristics Section (OS-333), U.S. Environmental Protection Agency, ~~401 M Street, SW~~ 1200 Pennsylvania Ave, NW, Washington, DC 20460;

* * *

[See Prior Text D.2.m – O.2.c.vi]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.
HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 10:496 (July 1984), LR 11:1139 (December 1985), LR 12:319 (May 1986), LR 13:84 (February 1987), LR 13:433 (August 1987), LR 13:651 (November 1987), LR 14:790 (November 1988), LR 15:181 (March 1989), LR 16:47 (January 1990), LR 16:217 (March 1990), LR 16:220 (March 1990), LR 16:398 (May 1990), LR 16:614 (July 1990), LR 17:362 (April 1991), LR 17:368 (April 1991), LR 17:478 (May 1991), LR 17:883 (September 1991), LR 18:723 (July 1992), LR 18:1256 (November 1992), LR 18:1375 (December 1992), amended by the Office of the Secretary, LR 19:1022 (August 1993), amended by the Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 20:1000 (September 1994), LR 21:266 (March 1995), LR 21:944 (September 1995), LR 22:813 (September 1996), LR 22:831 (September 1996), amended by the Office of the Secretary, LR 23:298 (March 1997), amended by the Office of Solid And Hazardous Waste, Hazardous Waste Division, LR 23:564 (May 1997), LR 23:567 (May 1997), LR 23:721 (June 1997), amended by the Office of Waste Services, Hazardous Waste Division, LR 23:952

(August 1997), LR 23:1511 (November 1997), LR 24:298 (February 1998), LR 24:655 (April 1998), LR 24:1093 (June 1998), LR 24:1687 (September 1998), LR 24:1759 (September 1998), LR 25:431(March 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:268 (February 2000), LR 26:2464 (November 2000), LR 27:**.

**' 109. Definitions**

For all purposes of these rules and regulations, the terms defined in this Chapter shall have the following meanings, unless the context of use clearly indicates otherwise:

* * *

[See Prior Text]

*Dioxins and Furans (D/F)***C**tetra, penta, hexa, hepta, and octa-chlorinated dibenzo dioxins and furans.

* * *

[See Prior Text]

*TEQ***C**toxicity equivalence, the international method of relating the toxicity of various dioxin/furan congeners to the toxicity of 2,3,7,8-tetrachlorodibenzo-p-dioxin.

* * *

[See Prior Text ]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 10:496 (July 1984), LR 11:1139 (December 1985), LR 12:319 (May 1986), LR 13:84 (February 1987), LR 13:433 (August 1987), LR 13:651 (November 1987), LR 14:790 (November 1988), LR 15:378 (May 1989), LR 15:737 (September 1989), LR 16:47 (January 1990), LR 16:218 (March 1990), LR 16:220 (March 1990), LR 16:399 (May 1990), LR 16:614 (July 1990), LR 16:683 (August 1990), LR 17:362 (April 1991), LR 17:478 (May 1991), LR 18:723 (July 1992), LR 18:1375 (December 1992), repromulgated by the Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 19:626 (May 1993), amended by the Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 20:1000 (September 1994), LR 20:1109 (October 1994), LR 21:266 (March 1995), LR 21:944 (September 1995), LR 22:814 (September 1996), LR 23:564 (May 1997), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:655 (April 1998), LR 24:1101 (June 1998), LR 24:1688 (September 1998), LR 25:433 (March 1999), repromulgated LR 25:853 (May 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:269 (February 2000), LR

26:2465 (November 2000), LR 27:**.

**§110. References**

* * *

[See Prior Text in A – A.10]

11. "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", EPA Publication SW-846 [Third Edition (November 1986), as amended by Updates I (July 1992), II (September 1994), IIA (August 1993), IIB (January 1995), III (December 1996), and IIIA (April 1998)]. The Third Edition of SW-846 and Updates I, II, IIA, IIB, and III (document number 955-001-00000-1) are available from the Superintendent of Documents, U.S. Government Printing Office, Washington, DC 20402, (202) 512-1800. Update IIIA is available through EPA's Methods Information Communication Exchange (MICE) Service. MICE can be contacted by phone at (703) 821-4690. Update IIIA can also be obtained by contacting the U.S. Environmental Protection Agency, Office of Solid Waste (5307W), OSW Methods Team, ~~401 M Street, SW~~1200 Pennsylvania Ave, NW, Washington, DC, 20460. Copies of the Third Edition and its updates are also available from the National Technical Information Service (NTIS), 5285 Port Royal Road, Springfield, VA 22161, (703) 487-4650. Copies may be inspected at the Library, U.S. Environmental Protection Agency, ~~401 M Street, SW~~1200 Pennsylvania Ave, NW, Washington, DC 20460, or at the Office of the Federal Register, 800 North Capitol Street, NW, Suite 700, Washington, DC;

* * *

[See Prior Text in A.12 – B]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 22:814 (September 1996), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:656 (April 1998), LR 24:1690 (September 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:270 (February 2000), LR 27:**.

**Title 33**
**ENVIRONMENTAL QUALITY**
**Part V. Hazardous Waste and Hazardous Materials**
**Subpart 1. Department of Environmental QualityCHazardous Waste**

**Chapter 3. General Conditions for Treatment, Storage, and Disposal Facility Permits**

**' 322. Classification of Permit Modifications**

The following is a listing of classifications of permit modifications made at the request of the permittee.

| **Modifications** | **Class** |
|---|---|
| * * * | |
| [See Prior Text in A - B.7.b] | |
| 8. Changes to remove permit conditions that are no longer applicable (i.e., because the standards upon which they are based are no longer applicable to the facility). | [1]1 |
| * * * | |
| [See Prior Text in Note - N.3] | |

[1]Class 1 modifications requiring prior administrative authority approval.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 13:433 (August 1987), LR 16:614 (July 1990), LR 17:658 (July 1991), LR 21:266 (March 1995), LR 21:944 (September 1995), LR 22:815 (September 1996), amended by the Office of the Secretary, LR 24:2245 (December 1998), amended by the Office of Waste Services, Hazardous Waste Division, LR 25:436 (March 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, L.R. 26:270 (February 2000), LR 27:**.

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**Chapter 5. Permit Application Contents**

**Subchapter E. Specific Information Requirements**

**' 529. Specific Part II Information Requirements for Incinerators**

Except as LAC 33:V.Chapter 31 and Subsection F of this Section provides otherwise, owners and operators of facilities that incinerate hazardous waste must fulfill the requirements of Subsection A, B or C of this Section.

* * *

[See Prior Text in A - E.3]

F. When an owner or operator demonstrates compliance with the air emission standards and limitations in 40 CFR part 63, subpart EEE (i.e., by conducting a comprehensive performance test and submitting a notification of compliance), the requirements of this Section do not apply. Nevertheless, the administrative authority may apply the provisions of this Section, on a case-by-case basis, for purposes of information collection in accordance with LAC 33:V.303.Q and 311.E.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 and 30:2011.D.24(a).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 10:280 (April 1984), LR 22:817 (September 1996), amended by the Office of Waste Services, Hazardous Waste Division, LR 25:2199 (November 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**' 535. Specific Part II Information Requirements for Boilers and Industrial Furnaces Burning Hazardous Waste for Energy or Material Recovery and not for Destruction**

* * *

[See Prior Text in A - F]

G. When an owner or operator of a cement or lightweight aggregate kiln demonstrates compliance with the air emission standards and limitations in 40 CFR part 63, subpart EEE (i.e., by conducting a comprehensive performance test and submitting a notification of compliance), the requirements of this Section do not apply. Nevertheless, the administrative authority may apply the

provisions of this Section, on a case-by-case basis, for purposes of information collection in accordance with LAC 33:V.303.Q and 311.E.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 15:737 (September 1989), amended LR 18:1375 (December 1992), LR 21:266 (March 1995), LR 22:817 (September 1996), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**Subchapter F. Special Forms of Permits**

**' 537. Permits for Boiler and Industrial Furnaces Burning Hazardous Waste for Recycling Purposes Only (boilers and industrial furnaces burning hazardous waste for destruction are subject to permit requirements for incinerators)**

* * *

[See Prior Text in A - C.2]

D. When an owner or operator of a cement or lightweight aggregate kiln demonstrates compliance with the air emission standards and limitations in 40 CFR part 63, subpart EEE (i.e., by conducting a comprehensive performance test and submitting a notification of compliance), the requirements of this Section do not apply. Nevertheless, the administrative authority may apply the provisions of this Section, on a case-by-case basis, for purposes of information collection in accordance with LAC 33:V.303.Q and 311.E.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 15:737 (September 1989), amended LR 18:1375 (December 1992), LR 21:266 (March 1995), LR 22:818 (September 1996), LR 22:832 (September 1996), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:657(April 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2468 (November 2000), LR 27:**.

**Title 33**
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**Chapter 9. Manifest System for TSD Facilities**

**§905. Use of the Manifest System**

* * *

[See Prior Text in A - C]

D. Within three working days of the receipt of a shipment subject to LAC 33:V.Chapter 11.Subchapter B, the owner or operator of the facility must provide a copy of the tracking document bearing all required signatures to the notifier, to the Office of Enforcement and Compliance Assurance, Office of Compliance, Enforcement Planning, Targeting and Data Division (2222A), Environmental Protection Agency, ~~401 M Street, SW~~1200 Pennsylvania Ave, NW, Washington, DC 20460~~,; to the Department of Environmental Quality, Office of Environmental Services, Environmental Assistance Division, Box 82135, Baton Rouge, LA 70884;~~ and to competent authorities of all other concerned countries. A copy of the tracking document must be maintained at the facility for at least three years from the date of signature.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 17:364 (April 1991), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:660 (April 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:---- (January 2001), LR 27:**.

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**Chapter 11. Generators**

**Subchapter A. General**

**' 1109. Pre-Transport Requirements**

* * *
[See Prior Text in A - E.1.d]

e. the generator complies with the requirements for owners or operators in LAC 33:V.2245.~~D~~E, 4319 and in Chapter 43.Subchapters B and C.

* * *
[See Prior Text in E.2 – 7.d.iv.(c).(v)]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.
HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 10:496 (July 1984), LR 13:433 (August 1987), LR 16:47 (January 1990), LR 16:220 (March 1990), LR 16:1057 (December 1990), LR 17:658 (July 1991), LR 18:1256 (November 1992), LR 18:1375 (December 1992), LR 20:1000 (September 1994), LR 20:1109 (October 1994), LR 21:266 (March 1995), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:1693 (September 1998), LR 25:437 (March 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 25:1466 (August 1999), LR 26:277 (February 2000), LR 26:2470 (November 2000), LR 27:**.

**Subchapter B. Transfrontier Shipments of Hazardous Waste**

**§1127. Transfrontier Shipments of Hazardous Waste for Recovery Within the OECD**

* * *
[See Prior Text in A - C.2.a.]

i. Notification. At least 45 days prior to commencement of the transfrontier movement, the notifier must provide written notification in English of the proposed transfrontier movement to the Office of Enforcement and Compliance Assurance, Office of Compliance, Enforcement Planning, Targeting and Data Division (2222A), Environmental Protection Agency,

~~401 M Street, SW~~1200 Pennsylvania Ave, NW, Washington, DC 20460, with the words "Attention: OECD Export Notification" prominently displayed on the envelope. This notification must include all of the information identified in Subsection C.5 of this Section. In cases where wastes having similar physical and chemical characteristics, the same United Nations classification, and the same RCRA waste codes are to be sent periodically to the same recovery facility by the same notifier, the notifier may submit one notification of intent to export these wastes in multiple shipments during a period of up to one year.

* * *

[See Prior Text in C.2.a.ii – C.2.b]

i. The notifier must provide EPA the information identified in Subsection C.5 of this Section, in English, at least 10 days in advance of commencing shipment to a preapproved facility. The notification should indicate that the recovery facility is preapproved and may apply to a single specific shipment or to multiple shipments as described in Subsection C.2.a.i of this Section. This information must be sent to the Office of Enforcement and Compliance Assurance, Office of Compliance, Enforcement Planning, Targeting and Data Division (2222A), Environmental Protection Agency, ~~401 M Street, SW~~ 1200 Pennsylvania Ave, NW, Washington, DC 20460, with the words "OECD Export Notification-Preapproved Facility" prominently displayed on the envelope.

* * *

[See Prior Text in C.2.b.ii – D.4]

5. Within three working days of the receipt of imports subject to this Subchapter, the owner or operator of the United States recovery facility must send signed copies of the tracking document to the notifier, to the Office of Enforcement and Compliance Assurance, Office of Compliance, Enforcement Planning, Targeting and Data Division (2222A), Environmental Protection Agency, ~~401 M Street, SW~~1200 Pennsylvania Ave, NW, Washington, DC 20460, and to the competent authorities of the exporting and transit countries.

* * *

[See Prior Text in E – G]

1. Annual Reports. For all waste movements subject to this Subchapter, persons (e.g., notifiers, recognized traders) who meet the definition of primary exporter in LAC 33:V.109 shall file an annual report with the Office of Enforcement and Compliance Assurance, Office of Compliance, Enforcement Planning, Targeting and Data Division (2222A), Environmental Protection Agency, ~~401 M Street, SW~~ 1200 Pennsylvania Ave, NW, Washington, DC 20460, no later than March 1 of each year summarizing the types, quantities, frequency, and ultimate destination of all such hazardous waste exported during the previous calendar year. (If the primary exporter is required to file an annual report for waste exports that are not covered under this

Subchapter, he may include all export information in one report provided the information required by this Subsection on exports of waste destined for recovery within the designated OECD member countries is contained in a separate ~~S~~section.) Such reports shall include the following:

* * *

[See Prior Text in G.1.a – I.4]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Waste Services, Hazardous Waste Division, LR 24:661 (April 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2471 (November 2000), LR 27:**.

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**Subpart 1. Department of Environmental QualityCHazardous Waste**

**Chapter 15. Treatment, Storage, and Disposal Facilities**

**§1531. Required Notices**

* * *

[See Prior Text in A]

B. The owner or operator of a recovery facility that has arranged to receive hazardous waste subject to LAC 33:V.Chapter 11.Subchapter B must provide a copy of the tracking document bearing all required signatures to the notifier, to the Office of Enforcement and Compliance Assurance, Office of Compliance, Enforcement Planning, Targeting and Data Division (2222A), Environmental Protection Agency, ~~401 M Street, SW~~1200 Pennsylvania Ave, NW, Washington, DC 20460, and to the competent authorities of all other concerned countries within three working days of receipt of the shipment. The original of the signed tracking document must be maintained at the facility for at least three years.

* * *

[See Prior Text in C – E]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 15:378 (May 1989), LR 16:220 (March 1990), LR 16:399 (May 1990), LR 18:1256 (November 1992), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:666 (April 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2473 (November 2000), LR 27:**.

**Title 33**
**ENVIRONMENTAL QUALITY**
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## Chapter 17. Air Emission Standards

## Subchapter A. Process Vents

### §1705. Applicability

The regulations in this Subchapter apply to owners and operators of facilities that treat, store, or dispose of hazardous wastes (except as provided in LAC 33:V.1501).

* * *

[See Prior Text in A]

1. a unit that is subject to the permitting requirements of LAC 33:V.Chapter~~s~~ 3, 5, 7, ~~31, and~~or 43;

2. a unit (including a hazardous waste recycling unit) that is not exempt from the permitting requirements under LAC 33:V.1109.E (i.e., a hazardous waste recycling unit that is not a 90-day tank or container) and that is located on a hazardous waste management facility otherwise subject to the permitting requirements of LAC 33:V.Chapter~~s~~ 3, 5, 7, ~~31, and~~or 43; or

* * *

[See Prior Text in A.3 - D]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 17:658 (July 1991), amended LR 18:723 (July 1992), LR 20:1000 (September 1994), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:1698 (September 1998), LR 25:437 (March 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

### Subchapter B. Equipment Leaks

### §1717. Applicability

* * *

[See Prior Text in A - B]

1. a unit that is subject to the permitting requirements of LAC 33:V.Chapter~~s~~ 3, 5, 7, ~~31, and~~or 43; or

2. a unit (including a hazardous waste recycling unit) that is not exempt from permitting under the provisions of LAC 33:V.1109.E.1 (i.e., a hazardous waste recycling unit that is not a 90-day tank or container) and that is located at a hazardous waste management facility otherwise subject to the permitting requirements of LAC 33:V.Chapter~~s~~ 3, 5, 7, ~~31, and~~or 43; or

* * *

[See Prior Text in B.3 – F.Note]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 17:658 (July 1991), amended LR 20:1000 (September 1994), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:1700 (September 1998), LR 25:438 (March 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**Title 33**
**ENVIRONMENTAL QUALITY**
**Part V. Hazardous Waste and Hazardous Materials**
**Subpart 1. Department of Environmental QualityCHazardous Waste**

**Chapter 22. Prohibitions on Land Disposal**

**Subchapter A. Land Disposal Restrictions**

**' 2214. ~~Waste-Specific Prohibitions - Organobromine Wastes~~Repealed**

~~A. Effective April 20, 1999, the wastes specified in LAC 33:V.4901.C as EPA Hazardous Wastes Number K140 and in LAC 33:V.4901.F as EPA Hazardous Waste Number U408 are prohibited from land disposal. In addition, soils and debris contaminated with these wastes, radioactive wastes mixed with these hazardous wastes, and soils and debris contaminated with these radioactive mixed wastes, are prohibited from land disposal.~~

~~B. The requirements of Subsection A of this Section do not apply if:~~

~~1. the wastes meet the applicable treatment standards specified in LAC 33:V.2223-2236;~~

~~2. persons have been granted an exemption from a prohibition in accordance with a petition under LAC 33:V.2241 or 2271, with respect to those wastes and units covered by the petition;~~

~~3. the wastes meet the applicable treatment standards established in accordance with a petition granted under LAC 33:V.2231;~~

~~4. hazardous debris has met treatment standards in LAC 33:V.2223 or in the alternative treatment standards in LAC 33:V.2230; or~~

~~5. persons have been granted an extension to the effective date of a prohibition in accordance with LAC 33:V.2239, with respect to these wastes covered by the extension.~~

~~C. To determine whether a hazardous waste identified in this Section exceeds the applicable treatment standards specified in LAC 33:V.2223, the initial generator must test a sample of the waste extract or the entire waste, depending on whether the treatment standards are expressed as concentrations in the waste extract or the waste, or the generator may use knowledge of the waste. If the waste contains constituents in excess of the applicable universal treatment standard levels of LAC 33:V.2233, the waste is prohibited from land disposal and all requirements of this Chapter are applicable, except as otherwise specified.~~

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.
HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Waste Services, Hazardous Waste Division, LR 25:443 (March 1999) , repealed by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**' 2236. Alternative Land Disposal Restriction (LDR) Treatment Standards for Contaminated Soil**

* * *
[See Prior Text in A - C.1]

a. for nonmetals except carbon disulfide, cyclohexanone, and methanol, treatment must achieve 90 percent reduction in total constituent concentrations, except as provided by Subsection C.1.c of this Section;

b. for metals and carbon disulfide, cyclohexanone, and methanol, treatment must achieve 90 percent reduction in constituent concentrations as measured in leachate from the treated media (tested according to the toxicity characteristic leaching procedure, TCLP) or 90 percent reduction in total constituent concentrations (when a metal removal treatment technology is used), except as provided by Subsection C.1.c of this Section;

* * *
[See Prior Text in C.1.c - E.2.b]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.
HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Waste Serivces, LR 25:446 (March 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:281 (February 2000), LR 27:**.

**' 2245. Generators' Waste Analysis, Recordkeeping, and Notice Requirements**

* * *
[See Prior Text in A - C.1]

2. for contaminated soil, with the initial shipment of wastes to each treatment, storage, or disposal facility, the generator must send a one-time written notice to each facility receiving the waste and place a copy in the file. The notice must include the information in Subsection D of this Section of the Generator Paperwork Requirements Table.;

3. if the waste changes, the generator must send a new notice and certification to the receiving facility, and place a copy in their files. Generators of hazardous debris excluded from the definition of hazardous waste under LAC 33:V.109.Hazardous Waste.6 are not subject to these requirements.

* * *

[See Prior Text in D -K]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 15:378 (May 1989), amended LR 16:1057 (December 1990), LR 17:658 (July 1991), LR 21:266 (March 1995), LR 21:267 (March 1995), LR 21:1334 (December 1995), LR 22:22 (January 1996), LR 22:820 (September 1996), LR 22:1130 (November 1996), LR 23:565 (May 1997), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:669 (April 1998), LR 24:1728 (September 1998), LR 25:447 (March 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:281 (February 2000), LR 26:2478 (November 2000), LR 27:**.

Table 2 - TREATMENT STANDARDS FOR HAZARDOUS WASTES

| | | Regulated Hazardous | Constituent | Wastewaters | Nonwastewaters |
|---|---|---|---|---|---|
| Waste Code | Waste Description and Treatment/Regulatory Subcategory[1] | Common Name | CAS[2] Number | Concentration in mg/l[3]; or Technology Code[4] | Concentration in mg/kg[5] unless noted as "mg/l TCLP" or Technology Code[4] |
| * * * [See Prior Text in D001[9] – K087] | | | | | |
| K088 | Spent potliners from primary aluminum reduction. | Acenaphth~~a~~lene | 83-32-9 | 0.059 | 3.4 |
| | | Anthracene | 120-12-7 | 0.059 | 3.4 |
| | | Benzo(a)anthracene | 56-55-3 | 0.059 | 3.4 |
| | | Benzo(a)pyrene | 50-32-8 | 0.061 | 3.4 |
| | | Benzo(b)fluoranthene | 205-99-2 | 0.11 | 6.8 |
| | | Benzo(k)fluoranthene | 207-08-9 | 0.11 | 6.8 |

| | | Regulated Hazardous | Constituent | Wastewaters | Nonwastewaters |
|---|---|---|---|---|---|
| Waste Code | Waste Description and Treatment/Regulatory Subcategory[1] | Common Name | CAS[2] Number | Concentration in mg/l[3]; or Technology Code[4] | Concentration in mg/kg[5] unless noted as "mg/l TCLP" or Technology Code[4] |
| | | Benzo(g,h,i)perylene | 191-24-2 | 0.0055 | 1.8 |
| | | Chrysene | 218-01-9 | 0.059 | 3.4 |
| | | Dibenz(a,h)anthracene | 53-70-3 | 0.055 | 8.2 |
| | | Fluoranthene | 206-44-0 | 0.068 | 3.4 |
| | | Indeno (1,2,3-c,d)pyrene | 193-39-5 | 0.0055 | 3.4 |
| | | Phenanthrene | 85-01-8 | 0.059 | 5.6 |
| | | Pyrene | 129-00-0 | 0.067 | 8.2 |
| | | Antimony | 7440-36-0 | 1.9 | 1.15 mg/l TCLP |

| | | Regulated Hazardous | Constituent | Wastewaters | Nonwastewaters |
|---|---|---|---|---|---|
| Waste Code | Waste Description and Treatment/Regulatory Subcategory[1] | Common Name | CAS[2] Number | Concentration in mg/l[3]; or Technology Code[4] | Concentration in mg/kg[5] unless noted as "mg/l TCLP" or Technology Code[4] |
| | | Arsenic | 7440-38-2 | 1.4 | 26.1 mg/kg~~TCLP~~ |
| | | Barium | 7440-39-3 | 1.2 | 21 mg/l TCLP |
| | | Beryllium | 7440-41-7 | 0.82 | 1.22 mg/l TCLP |
| | | Cadmium | 7440-43-9 | 0.69 | 0.11 mg/l TCLP |
| | | Chromium (Total) | 7440-47-3 | 2.77 | 0.60 mg/l TCLP |
| | | Lead | 7439-92-1 | 0.69 | 0.75 mg/l TCLP |
| | | Mercury | 7439-97-6 | 0.15 | 0.025 mg/l TCLP |

| | | Regulated Hazardous | Constituent | Wastewaters | Nonwastewaters |
|---|---|---|---|---|---|
| Waste Code | Waste Description and Treatment/Regulatory Subcategory[1] | Common Name | CAS[2] Number | Concentration in mg/l[3]; or Technology Code[4] | Concentration in mg/kg[5] unless noted as "mg/l TCLP" or Technology Code[4] |
| | | Nickel | 7440-02-0 | 3.98 | 11 mg/l TCLP |
| | | Selenium | 7782-49-2 | 0.82 | 5.7 mg/l TCLP |
| | | Silver | 7440-22-4 | 0.43 | 0.14 mg/l TCLP |
| | | Cyanide (Total)[7] | 57-12-5 | 1.2 | 590 |
| | | Cyanide (Amenable)[7] | 57-12-5 | 0.86 | 30 |
| | | Fluoride | 16984-48-8 | 35 | NA |
| * * * [See Prior Text in K093 – K132] | | | | | |
| K136 | Still bottoms from the purification of ethylene | Methyl bromide (Bromomethane) | 74-83-9 | 0.11 | 15 |

| | | Regulated Hazardous | Constituent | Wastewaters | Nonwastewaters |
|---|---|---|---|---|---|
| Waste Code | Waste Description and Treatment/Regulatory Subcategory[1] | Common Name | CAS[2] Number | Concentration in mg/l[3]; or Technology Code[4] | Concentration in mg/kg[5] unless noted as "mg/l TCLP" or Technology Code[4] |
| | | Chloroform | 67-66-3 | 0.046 | 6.0 |
| | | Ethylene dibromide (1,2-Dibromoethane) | 106-93-4 | 0.028 | 15 |
| ~~K140~~ | ~~Floor sweepings, off-specification product, and spent filter media from the production of 2,4,6-Tribromophenol~~ | ~~2,4,6-Tribromophenol~~ | ~~118-79-6~~ | ~~0.035~~ | ~~7.4~~ |
| K141 | Process residues from the recovery of coal tar, including, but not limited to, collecting sump residues from the production of coke or the recovery of coke by-products produced from coal. This listing does not include K087 (decanter tank tar sludge from coking operations). | Benzene | 71-43-2 | 0.14 | 10 |
| | | Benzo(a)anthracene | 56-55-3 | 0.059 | 3.4 |
| | | Benzo(a)pyrene | 50-2-8 | 0.061 | 3.4 |

| | | Regulated Hazardous | Constituent | Wastewaters | Nonwastewaters |
|---|---|---|---|---|---|
| Waste Code | Waste Description and Treatment/Regulatory Subcategory[1] | Common Name | CAS[2] Number | Concentration in mg/l[3]; or Technology Code[4] | Concentration in mg/kg[5] unless noted as "mg/l TCLP" or Technology Code[4] |
| | | Benzo(b)fluoranthene (difficult to distinguish from benzo(k)fluoranthene) | 205-99-2 | 0.11 | 6.8 |
| | | Benzo(k)fluoranthene (difficult to distinguish from benzo(b)fluoranthene) | 207-08-9 | 0.11 | 6.8 |
| | | Chrysene | 218-01-9 | 0.059 | 3.4 |
| | | Dibenz(a,h)anthracene | 53-70-3 | 0.055 | 8.2 |
| | | Indeno(1,2,3-cd)pyrene | 193-39-5 | 0.0055 | 3.4 |
| * * * [See Prior Text in K142 – U395] | | | | | |
| U404 | Triethylamine | Triethylamine | 121-44-8 | 0.081 | 1.5 |

| | | Regulated Hazardous | Constituent | Wastewaters | Nonwastewaters |
|---|---|---|---|---|---|
| Waste Code | Waste Description and Treatment/Regulatory Subcategory[1] | Common Name | CAS[2] Number | Concentration in mg/l[3]; or Technology Code[4] | Concentration in mg/kg[5] unless noted as "mg/l TCLP" or Technology Code[4] |
| ~~U408~~ | ~~2,4,6-Tribromophenol~~ | ~~2,4,6-Tribromophenol~~ | ~~118-79-6~~ | ~~0.035~~ | ~~7.4~~ |
| U409 | Thiophanate-methyl | Thiophanate-methyl | 23564-05-8 | 0.056 | 1.4 |
| * * * | | | | | |
| [See Prior Text in U410 – U411] | | | | | |

[See Prior Text in Notes 1 – 11]

Note: NA means not applicable.

| Table 7. Universal Treatment Standards | | | |
|---|---|---|---|
| Regulated Constituent-Common Name | CAS[1] Number | Wastewater Standard Concentration in mg/l[2] | Nonwastewater Standard Concentration in mg/kg[3] unless noted as "mg/l TCLP" |
| Organic Constituents | | | |
| * * * | | | |
| [See Prior Text in Acenaphthylene - Acetone] | | | |
| Acetonitrile | 75-05-8 | 5.6 | ~~1.8~~38 |
| * * * | | | |
| [See Prior Text in Acetophenone – Acrylamide] | | | |
| Acrylonitrile | 107-~~02-8~~13-1 | 0.24 | 84 |
| * * * | | | |
| [See Prior Text in Aldicarb sulfone[6] – Carbofuran phenol[6]] | | | |
| Carbon disulfide | 75-15-0 | 3.8 | 4.8 mg/l TCLP |
| * * * | | | |
| [See Prior Text in Carbon tetrachloride – 2-Chloro-1,3-butadiene ] | | | |
| Chlorodibromomethane | 124-48-1 | 0.057 | 15 |
| * * * | | | |
| [See Prior Text in Chloroethane - Chloroform] | | | |
| bis(2-Chloroisopropyl)ether | ~~108-60-1~~ 39638-32-9 | 0.055 | 7.2 |
| * * * | | | |
| [See Prior Text in p-Chloro-m-cresol – 2,4-Dinitrophenol] | | | |
| 2,4-Dinitrotoluene | 121-14-2 | 0.32 | 140 |
| * * * | | | |
| [See Prior Text in 2, 6 –Dinitrotoluene – Di-n-propylnitrosamine] | | | |
| 1,4-Dioxane | 123-91-1 | ~~NA~~ 12.0 | 170 |
| * * * | | | |
| [See Prior Text in Diphenylamine (difficult to distinguish from diphenylnitrosamine) - Disulfoton] | | | |
| Dithiocarbamates (total)[6] | ~~137-30-4~~NA | 0.028 | 28 |
| * * * | | | |
| [See Prior Text in EPTC[6]] | | | |
| Endosulfan I | 9~~3~~59-98-8 | 0.023 | 0.066 |
| Endosulfan II | 33213-65-~~5~~9 | 0.029 | 0.13 |

Table 7. Universal Treatment Standards

| Regulated Constituent-Common Name | CAS[1] Number | Wastewater Standard Concentration in mg/l[2] | Nonwastewater Standard Concentration in mg/kg[3] unless noted as "mg/l TCLP" |
|---|---|---|---|
| Endosulfan sulfate | ~~1-31~~1031-07-8 | 0.029 | 0.13 |
| * * * | | | |
| [See Prior Text in Endrin – Formetanate hydrochloride[6]] | | | |
| Heptachlor | 75~~6~~-44-8 | 0.0012 | 0.066 |
| * * * | | | |
| [See Prior Text in Heptachlor epoxide – HxCDDs (All Hexachlorodibenzo-p-dioxins)] | | | |
| H~~e~~xCDFs (All Hexachlorodibenzofurans) | NA | 0.000063 | 0.001 |
| * * * | | | |
| [See Prior Text in Hexachloroethane – Iodomethane] | | | |
| Isobutyl alcohol | 78-83-1 | 5.6 | ~~107~~170 |
| * * * | | | |
| [See Prior Text in Isodrin - Isosafrole] | | | |
| Kepone | 143-50-~~8~~0 | 0.0011 | 0.13 |
| * * * | | | |
| [See Prior Text in Methacrylonitrile - Naphthalene] | | | |
| 2-Naphthylamine | 91-59-8 | 0.52 | NA |
| * * * | | | |
| [See Prior Text in o-Nitroaniline – - Pronamide] | | | |
| Propham[6] | 1~~1~~22-42-9 | 0.056 | 1.4 |
| * * * | | | |
| [See Prior Text in Propoxur[6] – 1,2,4,5-Tetrachlorobenzene] | | | |
| TCDDs (All Tetrachlorodibenzo-~~n~~p-dioxins] | NA | 0.000063 | 0.001 |
| * * * | | | |
| [See Prior Text in TCDFs (All Tetrachlorodibenzofurans) –1,1,1,2-Tetrachloroethane] | | | |
| 1,1,2,2-Tetrachloroethane | 79-34-~~6~~5 | 0.057 | 6.0 |
| * * * | | | |
| [See Prior Text in Tetrachloroethylene – Thiodicarb[6]] | | | |
| Thiophanate-methyl[6] | 23564-05-8 | 0.056 | 1.4 |
| ~~Tirpate[6]~~ | ~~26419-73-8~~ | ~~0.056~~ | ~~0.28~~ |
| Toluene | 108-88-3 | 0.080 | 10 |
| * * * | | | |
| [See Prior Text in Toxaphene – Triallate[6]] | | | |

Table 7. Universal Treatment Standards

| Regulated Constituent-Common Name | CAS[1] Number | Wastewater Standard Concentration in mg/l[2] | Nonwastewater Standard Concentration in mg/kg[3] unless noted as "mg/l TCLP" |
|---|---|---|---|
| Bromoform (Tribromomethane) | 75-25-2 | 0.63 | 15 |
| ~~2,4,6-Tribromophenol~~ | ~~118-79-6~~ | ~~0.035~~ | ~~7.4~~ |
| 1,2,4-Trichlorobenzene | 120-82-1 | 0.055 | 19 |
| * * * | | | |
| [See Prior Text in 1,1,1-Trichloroethane – Inorganic Constituents, Cyanides (Amenable)[4]] | | | |
| Fluoride [5] | 169~~6~~84-48-8 | 35 | NA |
| * * * | | | |
| [See Prior Text in Lead – Zinc[5]] | | | |

* * *

[See Prior Text in Notes 1 – 7]

NOTE: NA means not applicable

**Title 33**
**ENVIRONMENTAL QUALITY**
**Part V. Hazardous Waste and Hazardous Materials**
**Subpart 1. Department of Environmental QualityCHazardous Waste**

**Chapter 30. Hazardous Waste Burned in Boilers and Industrial Furnaces**

**' 3001. Applicability**

* * *
[See Prior Text in A]

B. Integration of the MACT Standards

1. Except as provided by Subsection B.2 of this Section, the standards of this Chapter no longer apply when an affected source demonstrates compliance with the maximum achievable control technology (MACT) requirements of 40 CFR part 63, subpart EEE by conducting a comprehensive performance test and submitting to the administrative authority a notification of compliance under 40 CFR 63.1207(j) and 63.1210(d) documenting compliance with the requirements of subpart EEE of 40 CFR 63. Nevertheless, even after this demonstration of compliance with the MACT standards, RCRA permit conditions that were based on the standards of LAC 33:V.Chapter 30 will continue to be in effect until they are removed from the permit or the permit is terminated or revoked, unless the permit expressly provides otherwise.

2. The following standards continue to apply:

a. the closure requirements of LAC 33:V.3005.I and 3007.L;

b. the standards for direct transfer of LAC 33:V.3023;

c. the standards for regulation of residues of LAC 33:V.3025; and

d. the applicable requirements of LAC 33:V.901, 905, 907, 909 and Chapters 15, 17 (Subchapters B and C), 33, 35, 37, and 43 (Subchapters A – G, R, and V) and 4301.A – C, G, I, 4306.

~~B~~C. The following hazardous wastes and facilities are not subject to regulation under this Chapter:

1. used oil burned for energy recovery that is also a hazardous waste solely because it exhibits a characteristic of hazardous waste identified in LAC 33:V.4903. Such used oil is subject to regulation under LAC 33:V.Chapter 40;

2. gas recovered from hazardous or solid waste landfills when such gas is burned for energy recovery;

3. hazardous wastes that are exempt from regulation under LAC 33:V.105.D and 4105.B.10-12, and hazardous wastes that are subject to the special requirements for small quantity generators under LAC 33:V.Chapter 39; and

4. coke ovens, if the only hazardous waste burned is EPA Hazardous Waste Number K087, decanter tank tar sludge from coking operations.

~~C~~D. Owners or operators of smelting, melting, and refining furnaces (including pyrometallurgical devices such as cupolas, sintering machines, roasters, and foundry furnaces, but not including cement kilns, aggregate kilns, or halogen acid furnaces burning hazardous waste) that process hazardous waste solely for metal recovery are conditionally exempt from regulation under this Section, except for LAC 33:V.3003 and 3005.

1. To be exempt from LAC 33:V.3005 3023, an owner or operator of a metal recovery furnace or mercury recovery furnace must comply with the following requirements, ~~(~~except that an owner or operator of a lead or a nickel-chromium recovery furnace or a metal recovery furnace that burns baghouse bags used to capture metallic dusts emitted by steel manufacturing must comply with the requirements of Subsection ~~C~~D.3 of this Section~~)~~, and owners or operators of lead recovery furnaces that are subject to regulation under the Secondary Lead Smelting NESHAP must comply with the requirements of Subsection H of this Section:

a. provide a one-time written notice to the administrative authority indicating the following:

i. the owner or operator claims exemption under this Paragraph;

ii. the hazardous waste is burned solely for metal recovery consistent with the provisions of ~~LAC 33:V.3001.C.2~~Subsection D.2 of this Section;

iii. the hazardous waste contains recoverable levels of metals; and

iv. the owner or operator will comply with the sampling and analysis and recordkeeping requirements of this Paragraph;

b. sample and analyze the hazardous waste and other feedstocks as necessary to comply with the requirements of this Section under procedures specified by "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference at LAC 33:V.110, or alternative methods that meet or exceed the SW-846 method performance capabilities. If SW-846 does not prescribe a method for a particular determination, the owner or operator shall use the best available method; and

c. maintain at the facility for at least three years records to document compliance with the provisions of this Paragraph including limits on levels of toxic organic constituents and Btu value of the waste, and levels of recoverable metals in the hazardous waste compared to normal nonhazardous waste feedstocks.

2. A hazardous waste meeting either of the following criteria is not processed solely for metal recovery:

a. the hazardous waste has a total concentration of organic compounds listed in LAC 33:V.4901.G.Table 6 exceeding 500 ppm by weight, as-fired and so is considered to be burned for destruction. The concentration of organic compounds in a waste as-generated may be reduced to the 500 ppm limit by bona fide treatment that removes or destroys organic constituents. Blending for dilution to meet the 500 ppm limit is prohibited and documentation that the waste has not been impermissibly diluted must be retained in the records required by ~~LAC 33:V.3001.C.1.c~~Subsection D.1.c of this Section; or

b. the hazardous waste has a heating value of 5,000 Btu/lb or more as-fired and so is considered to be burned as fuel. The heating value of a waste as-generated may be reduced to below the 5,000 Btu/lb limit by bona fide treatment that removes or destroys organic constituents. Blending for dilution to meet the 5,000 Btu/lb limit is prohibited and documentation that the waste has not been impermissibly diluted must be retained in the records required by ~~LAC 33:V.3001.C.1.c~~Subsection D.1.c of this Section.

3. To be exempt from LAC 33:V.3005 3023, an owner or operator of a lead or nickel-chromium or mercury recovery furnace, except for owners or operators of lead recovery furnaces subject to regulation under the Secondary Lead Smelting NESHAP, or a metal recovery furnace that burns baghouse bags used to capture metallic dusts emitted by steel manufacturing must provide a one-time written notice to the administrative authority identifying each hazardous waste burned, specifying whether the owner or operator claims an exemption for each waste under Subsection ~~C~~D.1 or ~~C~~D.3 of this Section. The owner or operator must comply with the requirements of Subsection ~~C~~D.1 of this Section for those wastes claimed to be exempt under that section and must comply with the requirements below for those wastes claimed to be exempt under this Section.

a. The hazardous wastes listed in 40 CFR 266, appendices XI, XII, and XIII, as adopted and amended at Appendices K, L, and M of this Chapter, and baghouse bags used to capture metallic dusts emitted by steel manufacturing are exempt from the requirements of Subsection ~~C~~D.1 of this Section, provided that:

i. a waste listed in 40 CFR 266, Appendix IX, as adopted at Appendix I of this Chapter, must contain recoverable levels of lead, a waste listed in 40 CFR 266, Appendix XII, as adopted and amended at Appendix L of this Chapter, must contain recoverable levels of nickel or chromium, a waste listed in 40 CFR 266, Appendix XIII, as adopted and amended at Appendix M of this Chapter, must contain recoverable levels of mercury and contain less than 500 ppm of LAC 33:V.3105.Table 1 organic constituents, and baghouse bags used to capture metallic dusts emitted by steel manufacturing must contain recoverable levels of metal;

ii. the waste does not exhibit the Toxicity Characteristic of LAC 33:V.4903.E for an organic constituent;

iii. the waste is not a hazardous waste listed in LAC 33:V.4901 because it is listed for an organic constituent as identified in LAC 33:V.4901.G.Table 6; and

iv. the owner or operator certifies in the one-time notice that hazardous waste is burned under the provisions of ~~LAC 33:V.3001.C.3~~Subsection D.3 of this Section and that sampling and analysis will be conducted or other information will be obtained as necessary to ensure continued compliance with these requirements. Sampling and analysis shall be conducted according to ~~LAC 33:V.3001.C.1.b~~Subsection D.1.b of this Section; records to document compliance with ~~LAC 33:V.3001.C.3~~Subsection D.3 of this Section shall be kept for at least three years.

b. the administrative authority may decide on a case-by-case basis that the toxic organic constituents in a material listed in 40 CFR 266, Appendix XI, XII, or XIII, as adopted and amended at Appendices K, L, and M of this Chapter, that contains a total concentration of more than 500 ppm toxic organic compounds listed in LAC 33:V.3105.Table 1 may pose a hazard to human health and the environment when burned in a metal recovery furnace exempt from the requirements of this Chapter. In that situation, after adequate notice and opportunity for comment, the metal recovery furnace will become subject to the requirements of this Chapter when burning that material. In making the hazard determination, the administrative authority will consider the following factors:

i. the concentration and toxicity of organic constituents in the material;

ii. the level of destruction of toxic organic constituents provided by the furnace; and

iii. whether the acceptable ambient levels established in 40 CFR 266, Appendix IV or V, as adopted and amended at Appendices D and E of this Chapter, may be exceeded for any toxic organic compound that may be emitted based on dispersion modeling to predict the maximum annual average off-site ground level concentration.

~~D~~E. The standards for direct transfer operations under LAC 33:V.3023 apply only to facilities subject to the permit standards of LAC 33:V.3005 or the interim status standards of LAC 33:V.3007.

~~E~~F. The management standards for residues under LAC 33:V.3025 apply to any boiler or industrial furnace burning hazardous waste.

~~F~~G. Owners or operators of smelting, melting, and refining furnaces (including pyrometallurgical devices such as cupolas, sintering machines, roasters, and foundry furnaces, but not including cement kilns, aggregate kilns, or halogen acid furnaces burning hazardous waste) that process hazardous waste for recovery of economically significant amounts of the precious metals

gold, silver, platinum, palladium, iridium, osmium, rhodium, or ruthenium or any combination of these are conditionally exempt from regulation under this Section, except for LAC 33:V.3025.

1. To be exempt from LAC 33:V.3005-3023, an owner or operator must:

a. provide a one-time written notice to the administrative authority indicating the following:

i. the owner or operator claims exemption under this Paragraph;

ii. the hazardous waste is burned solely for legitimate metal recovery; and

iii. the owner or operator will comply with the sampling, analysis, and recordkeeping requirements of this Paragraph;

b. sample and analyze the hazardous waste as necessary to document that the waste is burned for recovery of economically significant amounts of precious metal using procedures as described in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference at LAC 33:V.110, or alternative methods that meet or exceed the SW-846 method performance capabilities. If SW-846 does not prescribe a method for a particular determination, the owner or operator shall use the best available method; and

c. maintain at the facility for at least three years records to document that all hazardous wastes burned are for recovery of economically significant amounts of precious metal.

H. Starting June 23, 1997, owners or operators of lead recovery furnaces that process hazardous waste for recovery of lead and that are subject to regulation under the Secondary Lead Smelting NESHAP, are conditionally exempt from regulation under this Chapter, except for LAC 33:V.3003. To be exempt, an owner or operator must provide a one-time notice to the administrative authority identifying each hazardous waste burned and specifying that the owner or operator claims an exemption under this Subsection. The notice also must state that the waste burned has a total concentration of nonmetal compounds listed in LAC 33:V.3105. Table 1 of less than 500 ppm by weight, as fired and as provided in Subsection D.2.a of this Section, or is listed in Appendix K of this Chapter.

[Note: Parts of this Section were previously promulgated in LAC 33:V:4142 which has been repealed.]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 18:1375 (December 1992), amended LR 21:266 (March 1995), LR 21:944 (September 1995), LR 22:821 (September 1996), LR

22:835 (September 1996), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 25:1466 (August 1999), LR 27:**.

**' 3003. Management Prior to Burning**

* * *

[See Prior Text in A- C]

1. Owners ~~or~~and operators of facilities that store or treat hazardous waste that is burned in a boiler or industrial furnace are subject to the applicable provision of LAC 33:V.Chapters 1, 3, 5, 9, 15, 19, 21, 23, 25, 29, 33, 35, 37 and 43, except as provided by LAC 33:V.3003.C.2. These standards apply to storage and treatment by the burner as well as to storage and treatment facilities operated by intermediaries (processors, blenders, distributors, etc.) between the generator and the ~~commercial~~ burner.

* * *

[See Prior Text in C.2 - Note]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 18:1375 (December 1992), amended LR 21:266 (March 1995), LR 21:944 (September 1995), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**' 3011. Standards to Control Particulate Matter**

* * *

[See Prior Text in A - B]

C. Oxygen Correction

1. Measured pollutant levels must be corrected for the amount of oxygen in the stack gas according to the formula:

$$Pc = Pm \times 14/(E - Y)$$

where:

Pc = corrected concentration of the pollutant in the stack gas

Pm = measured concentration of the pollutant in the stack gas

E = oxygen concentration on a dry basis in the combustion air fed to the device

Y = measured oxygen concentration on a dry basis in the stack.

2. For devices that feed normal combustion air, E will equal 21 percent. For devices that feed oxygen-enriched air for combustion (i.e., air with an oxygen concentration exceeding 21 percent), the value of E will be the concentration of oxygen in the enriched air.

3. Compliance with all emission standards provided by this Chapter must be based on correcting to seven percent oxygen using this procedure.

~~C~~D. For the purposes of permit enforcement, compliance with the operating requirements specified in the permit (under LAC 33:V.3005) will be regarded as compliance with this Section. However, evidence that compliance with those permit conditions is insufficient to ensure compliance with the requirements of this Section may be "information" justifying modification or revocation and re-issuance of a permit under LAC 33:V.323.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.
HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 18:1375 (December 1992), amended LR 22:823 (September 1996), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**' 3025. Regulation of Residues**

A residue derived from the burning or processing of hazardous waste in a boiler or industrial furnace is not excluded from the definition of a hazardous waste under LAC 33:V.105.D.2.d, h, and i unless the device and the owner or operator meet the following requirements:

* * *

[See Prior Text in A - B]

1. Comparison of Waste-Derived Residue with Normal Residue. The waste-derived residue must not contain LAC 33:V.4901.G.Table 6 constituents (toxic constituents) that could reasonably be attributable to the hazardous waste at concentrations significantly higher than in residue generated without burning or processing of hazardous waste, using the following procedure. Toxic compounds that could reasonably be attributable to burning or processing the hazardous waste (constituents of concern) include toxic constituents in the hazardous waste, and the organic compounds listed in 40 CFR 266, appendix VIII, as adopted at Appendix H of this Chapter, that may be generated as products of incomplete combustion. Sampling and analyses shall be in conformance with procedures prescribed in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference at LAC

33:V.110. For polychlorinated dibenzo-p-dioxins and polychlorinated dibenzo-furans, analyses must be performed to determine specific congeners and homologues, and the results converted to 2,3,7,8-TCDD equivalent values using the procedure specified in Appendix I of this Chapter.

* * *

[See Prior Text in B.1.a - B.2]

a. Nonmetal Constituents. The concentration of each nonmetal toxic constituent of concern (specified in Subsection B.1 of this Section) in the waste-derived residue must not exceed the health-based level specified in 40 CFR 266, appendix VII, as adopted and amended at Appendix G of this Chapter, or the level of detection (using analytical procedures prescribed in "Test Methods for Evaluating Solid Waste, Physical/Chemical Methods," EPA Publication SW-846, as incorporated by reference at LAC 33:V.110), whichever is higher. If a health-based limit for a constituent of concern is not listed in 40 CFR 266, appendix VII, as adopted and amended at Appendix G of this Chapter, then a limit of 0.002 micrograms per kilogram or the level of detection (using analytical procedures ~~prescribed~~ contained in SW-846 or other appropriate methods), whichever is higher, shall be used. The levels specified in 40 CFR 266, appendix VII (and the default level of 0.002 micrograms per kilogram or the level of detection for constituents as identified in 40 CFR 266, appendix VII.Note 1, as adopted and amended at Appendix G of this Chapter) are administratively stayed under the condition, for those constituents specified in Subsection B.1 of this Section, that the owner or operator complies with alternative levels defined as the land disposal restriction limits specified in LAC 33:V.Chapter 22.Table 2 for F039 nonwastewaters. In complying with those alternative levels, if an owner or operator is unable to detect a constituent despite documenting use of best good-faith efforts, as defined by applicable agency guidance or standards, the owner or operator is deemed to be in compliance for that constituent. Until new guidance or standards are developed, the owner or operator may demonstrate such good-faith efforts by achieving a detection limit for the constituent that does not exceed an order of magnitude above the level provided by LAC 33:V.Chapter 22.Table 2 for F039 nonwastewaters. In complying with the LAC 33:V.Chapter 22.Table 2 for F039 nonwastewater levels for polychlorinated dibenzo-p-dioxins and polychlorinated dibenzo-furans, analyses must be performed for total hexachlorodibenzo-p-dioxins, total hexachlorodibenzofurans, total pentachlorodibenzo-p-dioxins, total pentachlorodibenzofurans, total tetrachlorodibenzo-p-dioxins, and total tetrachlorodibenzofurans.

Note to this Subsection: The stay,under the condition that the owner or operator complies with alternative levels defined as the land disposal restriction limits specified in LAC 33:V.Chapter 22.Table 2 for F039 nonwastewaters, ~~will~~ remains in effect until further administrative action is taken and notice is published in the *Federal Register* or the *Louisiana Register*; and

* * *

[See Prior Text in B.2.b - C.2.b]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 18:1375 (December 1992), amended LR 21:266 (March 1995), LR 22:826 (September 1996), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:1107 (June 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

## Appendices

**Appendix H. ~~Potential PICs for Determination of Exclusion of Waste-derived Residues~~ Organic Compounds for Which Residues Must be Analyzed**

40 CFR 266, appendix VIII, as amended by 56 FR 7235 (February 21, 1991), ~~and~~ 56 FR 32691 (July 17, 1991), 64 FR 52827 (September 30, 1999), and 64 FR 63209 (November 19, 1999), is hereby incorporated by reference.

**Appendix I. Methods Manual for Compliance with the BIF Regulations**

40 CFR 266, Appendix IX, as amended by 56 FR 32692 (July 17, 1991), 56 FR 42512,42516 (August 27, 1991), 57 FR 38566 (August 25, 1992), ~~and~~ 57 FR 44999 (September 30, 1992), and 62 FR 32463 (June 13, 1997), is hereby incorporated by reference, except that the citations 40 CFR 261, Appendix VIII, 266.103, 266.103(b), 266.103(b)(3), 266.103(c), 266.103(c)(1), 266.103(c)(3)(ii), 266.103(c)(7), 266.103(d), 266.106, 266.112, 266.112(b)(1) and (b)(2)(i), 268.43, and 266.Subpart H shall mean LAC 33:V.3105.Table 1, 3007, 3007.B, 3007.B.3, 3007.C, 3007.C.1, 3007.C.3.b, 3007.C.7, 3007.D, 3013, 3025, ~~3013, 3025,~~ 3025.B.1 and B.2.a, Chapter 22.Table 2, and Chapter 30, respectively. Terms within the incorporated Appendix shall be the terms adopted by reference except that "director," "administrator," "EPA regional office," and "EPA regional office or the appropriate enforcement agency" shall mean "administrative authority." "Environmental Protection Agency" and "EPA" shall mean "administrative authority," except when referring to an EPA method, protocol, file, performance audit sample, handbook, manual, document, program, default value, or default assumption.

Federal statutes and regulations that are cited in 40 CFR 266, Appendix IX that are not specifically adopted by reference shall be used as guidance in interpreting the federal regulations in 40 CFR 266, Appendix IX.

**Appendix M. Mercury-Bearing Wastes That May Be Processed in Exempt Mercury Recovery Units**

40 CFR 266, Appendix XIII, as amended by 59 FR 4804~~1~~2 (September 19, 1994), is hereby incorporated by reference, except that in regulations incorporated thereby, 40 CFR 261, Appendix VIII shall mean LAC 33:V.3105.Table 1.

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**Subpart 1. Department of Environmental QualityCHazardous Waste**

**Chapter 31. Incinerators**

**' 3105. Applicability**

* * *

[See Prior Text in A]

B. Integration of the MACT Standards

1. Except as provided by Subsection B.2 of this Section, the standards of this Subsection no longer apply when an owner or operator demonstrates compliance with the maximum achievable control technology (MACT) requirements of 40 CFR part 63, subpart EEE by conducting a comprehensive performance test and submitting to the administrative authority a notification of compliance under 40 CFR 63.1207(j) and 63.1210(d) documenting compliance with the requirements of subpart EEE of 40 CFR 63. Nevertheless, even after this demonstration of compliance with the MACT standards, RCRA permit conditions that were based on the standards of LAC 33:V.901, 905, 907, and Chapters 15 - 21, 23 – 29, and 31-37 will continue to be in effect until they are removed from the permit or the permit is terminated or revoked, unless the permit expressly provides otherwise.

2. The MACT standards do not replace the closure requirements of LAC 33:V.3121 or the applicable requirements of LAC 33:V.901, 905, 907, and Chapters 15, 17 (Subchapters B and C) 33, 35, and 37.

~~B~~C. The administrative authority, in establishing permit conditions in the application, must exempt the applicant from all requirements of this Chapter except waste analyses (LAC 33:V.3107) and closure (LAC 33:V.3121) if he finds the waste to be burned is:

1. listed as a hazardous waste solely because it is ignitable or corrosive or both as defined in LAC 33:V.4903; or

2. listed as a hazardous waste because it is reactive for characteristics other than:

a. when mixed with water, it generates toxic gases, vapors or fumes in a quantity sufficient to present a danger to human health or the environment~~,~~;

b. it is a cyanide or sulfide-bearing waste which when exposed to pH conditions between 2 and 12.5 can generate toxic gases, vapors or fumes in a quantity to present a

danger to human health or the environment and will not be burned when other hazardous wastes are present in the combustion zone; or

3. it is a hazardous waste solely because it possesses the characteristics of ignitability, corrosivity, or both, as determined by the test for characteristics of hazardous waste under LAC 33:V.Chapter 49; or

4. a hazardous waste solely because it possesses any of the reactivity characteristics as defined below and will not be burned when other hazardous wastes are present in the combustion zone:

a. it reacts violently with water~~,~~;

b. it forms potentially explosive mixtures with water~~,~~;

c. it is capable of detonation or explosive reaction if it is subjected to a strong initiating source or if heated under confinement~~,~~;

d. it is readily capable of detonation or explosive decomposition or reaction at standard temperature and pressure~~,~~;

e. it is a forbidden explosive as defined in LAC 33:V.Subpart 2, Chapter 101 or a Class A explosive as defined in LAC 33:V.Subpart 2, Chapter 101, or a Class B explosive as defined in LAC 33:V.Subpart 2, Chapter 101~~,~~; or

f. it is normally unstable and readily undergoes violent change without detonating; and

5. if the waste analysis shows that the waste contains none of the hazardous constituents listed in Table 1 which would reasonably be expected to be in the waste.

~~C~~D. If the waste to be burned is one which is described in LAC 33:V.3105.B above and contains insignificant concentrations of the hazardous constituents listed in Table 1 then the administrative authority may, in establishing permit conditions, exempt the applicant from all requirements of this Section except waste analyses (LAC 33:V.3107) and closure (LAC 33:V.3121) unless he finds that the waste will pose a threat to human health and the environment when burned in an incinerator.

~~D. Reserved~~

* * *

[See Prior Text in E]

| Table 1. Hazardous Constituents |
|---|

| Common Name | Chemical Abstracts Name | Chemical Abstracts Number | Hazardous Waste Number |
|---|---|---|---|
| * * * | | | |
| [See Prior Text in A2213 - Toxaphene] | | | |
| Triallate | Carbamothioic acid, bis (1-methylethyl)-, S-(2,3,3-trichloro-2-propenyl) ester | 2303-17-5 | U389 |
| ~~2,4,6-Tribromophenol~~ | ~~Tribromophenol, 2,4,6-~~ | ~~118-79-6~~ | ~~U408~~ |
| 1,2,4-Trichlorobenzene | Benzene, 1,2,4-trichloro- | 120-82-1 | |
| * * * | | | |
| [See Prior Text in 1,1,2-Trichloroethane - Ziram] | | | |

[1] The abbreviation N.O.S. (not otherwise specified) signifies those members of the general class not specifically listed by name in this table.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 11:1139 (December 1985), LR 13:433 (August 1987), LR 14:424 (July 1988), LR 15:737 (September 1989), LR 16:399 (May 1990), LR 18:1256 (November 1992), LR 18:1375 (December 1992), LR 20:1000 (September 1994), LR 21:944 (September 1995), LR 22:835 (September 1996), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:318 (February 1998), LR 24:681 (April 1998), LR 24:1741 (September 1998), LR 25:479 (March 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**' 3115. Incinerator Permits for New or Modified Facilities**

* * *

[See Prior Text in A - D]

E. When an owner or operator demonstrates compliance with the air emission standards and limitations in 40 CFR part 63, subpart EEE (i.e., by conducting a comprehensive performance test and submitting a notification of compliance), the requirements of this Section do not apply. Nevertheless, the administrative authority may apply the provisions of this Section, on a case-by-case basis, for purposes of information collection in accordance with LAC 33:V.303.Q and 311.E.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 10:200 (March 1984), amended LR 10:496 (July 1984), LR 16:614 (July 1990), LR 18:1256 (November 1992), LR 22:828 (September 1996), LR 22:835 (September 1996), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:683 (April 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2484 (November 2000), LR 27:**.

**Title 33**
**ENVIRONMENTAL QUALITY**
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**Subpart 1. Department of Environmental Quality C Hazardous Waste**

**Chapter 32. Miscellaneous Units**

**' 3203. Environmental Performance Standards**

A miscellaneous unit must be located, designed, constructed, operated, maintained, and closed in a manner that will ensure protection of human health and the environment. Permits for miscellaneous units are to contain such terms and provisions as necessary to protect human health and the environment, including, but not limited to, as appropriate, design and operating requirements, detection and monitoring requirements, and requirements for responses to releases of hazardous waste or hazardous constituents from the unit. Permit terms and provisions ~~shall~~ must include those requirements of LAC 33:V.Chapters 3, 5, 7, 17, 19, 21, 23, 25, 27, 29, ~~and~~ 31, ~~and~~ 4301.F, H, 4302, 4303 and 4305, all other applicable requirements of LAC 33:V.Subpart 1, and of 40 CFR 63.subpart EEE and 40 CFR 146~~, 1988, pp. 674-694, which~~ that are appropriate for the miscellaneous unit being permitted. Protection of human health and the environment includes, but is not limited to:

* * *

[See Prior Text in A - C.7]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 16:399 (May 1990), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:1742 (September 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**Title 33**
**ENVIRONMENTAL QUALITY**
**Part V. Hazardous Waste and Hazardous Materials**
**Subpart 1. Department of Environmental QualityCHazardous Waste**

**Chapter 38. Universal Wastes**

**Subchapter A. General**

**' 3809. Applicability - Lamps**

* * *
[See Prior Text in A - B]

1. lamps~~, as described in LAC 33:V.3813,~~ that are not yet wastes under LAC 33:V.4901~~, including those that do not meet the criteria for waste generation~~ as provided in Subsection C of this Section; and

2. lamps~~, as described in this Chapter,~~ that are not hazardous waste. A lamp is a hazardous waste if it exhibits one or more of the characteristics identified in LAC 33:V.4903.

C. Generation of Waste Lamps

1. A used lamp becomes a waste on the date it is discarded~~ (i.e., sent for reclamation)~~.

2. An unused lamp becomes a waste on the date the handler decides to discard it.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.
HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Waste Services, Hazardous Waste Division, LR 24:1760 (September 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**' 3813. Definitions**

* * *
[See Prior Text]

*Lamp* (also referrred to as *universal waste lamp*)**C**the bulb or tube portion of an electric lighting device. A lamp is specifically designed to produce radiant energy, most often in the ultraviolet ~~(UV)~~, visible, and infra-red ~~(IR)~~ regions of the electromagnetic spectrum. Examples of

common universal waste electric lamps include, but are not limited to, ~~incandescent,~~ fluorescent, high intensity discharge, ~~and~~ neon, mercury vapor, high pressure sodium, and metal halide lamps.

* * *

[See Prior Text]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 23:570 (May 1997), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:1760 (September 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:287 (February 2000), LR 27:**.

**Subchapter B. Standards for Small Quantity Handlers of Universal Waste**

**' 3821. Waste Management**

* * *

[See Prior Text in A - C.3.b]

D. ~~Universal Waste~~ Lamps. A small quantity handler of universal waste must manage ~~universal waste~~ lamps in a way that prevents releases of any universal waste~~s~~ or ~~a~~ component of ~~any~~ a universal waste to the environment, as follows:

1. a small quantity handler of universal waste must contain any ~~unbroken~~ lamp~~s~~ in ~~packaging~~ containers or packages that ~~will minimize breakage during normal handling~~ are structurally sound, adequate to prevent breakage, and compatible with the contents of the lamps. Such containers and packages must remain closed and must lack evidence of leakage, spillage or damage that could cause leakage under reasonably foreseeable conditions; and

2. a small quantity handler of universal waste must ~~contain broken lamps in packaging that will minimize the releases of lamp fragments and residues~~ immediately clean up and place in a container any lamp that is broken and must place in a container any lamp that shows evidence of breakage, leakage, or damage that could cause the release of mercury or other hazardous constituents to the environment. Containers must be closed, structurally sound, compatible with the contents of the lamps and must lack evidence of leakage, spillage or damage that could cause leakage or releases of mercury or other hazardous constituents to the environment under reasonably foreseeable conditions.

* * *

[See Prior Text in E - E.4]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 23:571 (May 1997). amended by the Office of Waste Services, Hazardous Waste Division, LR 24:1760 (September 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**' 3823. Labeling/Marking**

A. A small quantity handler of universal waste must label or mark the universal waste to identify the type of universal waste as specified below:

* * *

[See Prior Text in A.1 - 4]

5. ~~universal waste lamps (i.e.,~~ each lamp~~),~~ or a container or package in which ~~the~~ such lamps are contained~~,~~ must be labeled or marked clearly with ~~any~~ one of the following phrases: "Universal Waste - Lamp(s)," or "Waste Lamp(s)," or "Used Lamp(s)."

* * *

[See Prior Text in A.6]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 23:572 (May 1997), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:1761 (September 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**Subchapter C. Standards for Large Quantity Handlers of Universal Waste**

**' 3843. Waste Management**

* * *

[See Prior Text in A - C.3.b]

D. ~~Universal Waste~~ Lamps. A large quantity handler of universal waste must manage ~~universal waste~~ lamps in a way that prevents releases of any universal waste or component of a universal waste to the environment, as follows:

1. a large quantity handler of universal waste must contain any ~~unbroken~~ lamp~~s~~ in ~~packaging~~ containers or packages that ~~will minimize breakage during normal handling~~ are structurally sound, adequate to prevent breakage, and compatible with the contents of the lamps.

Such containers and packages must remain closed and must lack evidence of leakage, spillage or damage that could cause leakage under reasonably foreseeable conditions; and

2. a large quantity handler of universal waste must ~~contain broken lamps in packaging that will minimize the releases of lamp fragments and residues~~ immediately clean up and place in a container any lamp that is broken and must place in a container any lamp that shows evidence of breakage, leakage, or damage that could cause the release of mercury or other hazardous constituents to the environment. Containers must be closed, structurally sound, compatible with the contents of the lamps and must lack evidence of leakage, spillage or damage that could cause leakage or releases of mercury or other hazardous constituents to the environment under reasonably foreseeable conditions.

* * *

[See Prior Text in E - E.4]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 23:574 (May 1997), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:1761 (September 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**' 3845. Labeling/Marking**

A. A large quantity handler of universal waste must label or mark the universal waste to identify the type of universal waste as specified below:

* * *

[See Prior Text in A.1 - 4]

5. ~~universal waste lamps (i.e.,~~ each lamp~~),~~ or a container or package in which ~~the~~ such lamps are contained~~,~~ must be labeled or marked clearly with any one of the following phrases: "Universal Waste - Lamp(s)," or "Waste Lamp(s)," or "Used Lamp(s)."

* * *

[See Prior Text in A.6]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 23:575 (May 1997), amended by the Office of Waste Services, Hazardous Waste Division, LR 24:1761 (September 1998), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**Title 33**
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**Chapter 43. Interim Status**

**Subchapter N. Incinerators**

**' 4513. Applicability**

* * *
[See Prior Text in A]

B. Integration of the MACT Standards

1. Except as provided by Subsection B.2 of this Section, the standards of this Chapter no longer apply when an owner or operator demonstrates compliance with the maximum achievable control technology (MACT) requirements of 40 CFR part 63, subpart EEE by conducting a comprehensive performance test and submitting to the administrative authority a notification of compliance under 40 CFR 63.1207(j) and 63.1210(d) documenting compliance with the requirements of subpart EEE of 40 CFR 63.

2. The following requirements continue to apply even where the owner or operator has demonstrated compliance with the MACT requirements of 40 CFR 63,subpart EEE, LAC 33:V.4521(closure), and the applicable requirements of LAC 33:V.4301.A- C, G, I, 4306, and Chapter 43 (Subchapters A – G, R, and V).

~~B~~C. Owners or operators of incinerators burning hazardous waste are exempt from all of the requirements of this Section, except LAC 33:V.4521 (Closure), provided that the owner or operator has documented, in writing, that the waste would not reasonably be expected to contain any of the hazardous constituents listed in LAC 33:V.3105.Table 1, and such documentation is retained at the facility, if the waste to be burned is:

1. listed as a hazardous waste in LAC 33:V.4901, solely because it is ignitable (Hazard Code I), corrosive (Hazard Code C), or both; or

2. listed as a hazardous waste in LAC 33:V.4901, solely because it is reactive (Hazard Code R) for characteristics other than those listed in LAC 33:V.4903.D.4 and 5, and will not be burned when other hazardous wastes are present in the combustion zone; or

3. a hazardous waste solely because it possesses the characteristic of ignitability, corrosivity, or both, as determined by the tests for characteristics of hazardous wastes under LAC 33:V.4903; or

4. a hazardous waste solely because it possesses the reactivity characteristics described by LAC 33:V.4903.D.1-3 and 6-8, and will not be burned when other hazardous wastes are present in the combustion zone.

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Solid and Hazardous Waste, Hazardous Waste Division, LR 15:737 (September 1989), amended LR 16:220 (March 1990), LR 18:1375 (December 1992), LR 20:1000 (September 1994), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**Title 33**
**ENVIRONMENTAL QUALITY**
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**Subpart 1. Department of Environmental QualityCHazardous Waste**

## Chapter 49. Lists of Hazardous Wastes

### '4901. Category I Hazardous Wastes

* * *

[See Prior Text in A - B.3.c.xii]

C. Hazardous wastes from specific sources are listed in Table 2.

Table 2. Hazardous Wastes from Specific Sources

| Industry and EPA Hazardous Waste Number | Hazard Code | Hazardous Waste |
|---|---|---|
| **Wood preservation** | | |
| * * * [See Prior Text] | | |
| **Organic chemicals** | | |
| * * * [See Prior Text] | | |
| K136 | (T) | Still bottoms from the purification of ethylene dibromide in the production of ethylene dibromide via bromination of ethene. |
| ~~K140~~ | ~~(T)~~ | ~~Floor sweepings, off-specification product, and spent filter media from the production of 2,4,6-Tribromophenol.~~ |
| K149 | (T) | Distillation bottoms from the production of alpha- (or methyl-) chlorinated toluenes, ring chlorinated toluenes, benzoyl chlorides, and compounds with mixtures of these functional groups. (This waste does not include still bottoms from the distillation of benzyl chloride.) |
| * * * [See Prior Text] | | |

Table 2. Hazardous Wastes from Specific Sources

| Industry and EPA Hazardous Waste Number | Hazard Code | Hazardous Waste |
|---|---|---|
| **Iron and steel** | | |
| * * * [See Prior Text] | | |
| K062 | (C,T) | Spent pickle liquor generated by steel finishing operations of iron and steel industry (SIC Codes 331 and 332). |
| ~~**Primary copper**~~ | | |
| ~~K064~~ | ~~(T)~~ | ~~Acid plant blowdown slurry/sludge resulting from the thickening of blowdown slurry from primary copper production~~ |
| ~~**Primary lead**~~ | | |
| ~~K065~~ | ~~(T)~~ | ~~Surface impoundment solids contained in and dredged from surface impoundments at primary lead smelting facilities~~ |
| ~~**Primary zinc**~~ | | |
| ~~K066~~ | ~~(T)~~ | ~~Sludge from treatment of process wastewater and/or acid plant blowdown from primary zinc production~~ |
| **Primary aluminum** | | |
| K088 | (T) | Spent potliners from primary aluminum reduction. |
| ~~**Ferroalloys**~~ | | |
| ~~K090~~ | ~~(T)~~ | ~~Emission control dust or sludge from ferrochromium silicon production~~ |

| Table 2. Hazardous Wastes from Specific Sources | | |
|---|---|---|
| Industry and EPA Hazardous Waste Number | Hazard Code | Hazardous Waste |
| ~~K091~~ | ~~(T)~~ | ~~Emission control dust or sludge from ferrochromium production~~ |
| **Secondary lead** | | |
| * * * [See Prior Text] | | |

* * *
[See Prior Text in D – F.Comment]

| Table 4. Toxic Wastes | | |
|---|---|---|
| EPA Hazardous Waste Number | Chemical Abstract Number | Hazardous Waste |
| * * * [See Prior Text] | | |
| U011 | 61-82-5 | 1H-1,2,4-Triazol-3-amine |
| ~~U408~~ | ~~118-79-6~~ | ~~2,4,6-Tribromophenol~~ |
| U227 | 79-00-5 | 1,1,2-Trichloroethane |
| * * * [See Prior Text] | | |

[1] CAS Number given for parent compound only.

G. Constituents that Serve as a Basis for Listing Hazardous Waste. Table 6 lists constituents that serve as a basis for listing hazardous waste.

**Table 6.**
**Table of Constituents that Serve as a Basis for Listing Hazardous Waste**

* * *

[See Prior Text in EPA Hazardous Waste Number F001 – EPA Hazardous Waste Number K132. Methyl Bromide]

EPA Hazardous Waste Number K136
Ethylene dibromide

~~EPA Hazardous Waste Number K140~~
~~2,4,6-Tribromophenol~~

EPA Hazardous Waste Number K141
Benzene
benzo(a)anthracene
benzo(a)pyrene
benzo(b)fluoranthene
benzo(k)fluoranthene
dibenz(a,h)anthracene
indeno(1,2,3-cd)pyrene

* * *

[See Prior Text in EPA Hazardous Waste Number K142 – EPA Hazardous Waste Number K172. Benzene, arsenic]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality LR 10:200 (March 1984), amended LR 10:496 (July 1984), LR 11:1139 (December 1985), LR 12:320 (May 1986), LR 13:84 (February 1987), LR 13:433 (August 1987), LR 14:426 (July 1988), LR 14:790 (November 1988), LR 15:182 (March 1989), LR 16:47 (January 1990), LR 16:220 (March 1990), LR 16:614 (July 1990), LR 16:1057 (December 1990), LR 17:369 (April 1991), LR 17:478 (May 1991), LR 17:658 (July 1991), LR 18:723 (July 1992), LR 18:1256 (November 1992), LR 18:1375 (December 1992), LR 20:1000 (September 1994), LR 21:266 (March 1995), LR 21:944 (September 1995), LR 22:829 (September 1996), LR 22:840 (September 1996), amended by the Office of Waste Services, Hazardous Waste Division, LR 23:1522 (November 1997), LR 24:321 (February 1998), LR 24:686(April 1998), LR 24:1754 (September 1998), LR 25:487 (March 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.

**' 4909. Comparable/Syngas Fuel Exclusion**

* * *

[See Prior Text in A – C.5]

Table 7: Detection and Detection Limit Values for Comparable Fuel Specification

| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Total Nitrogen as N | NA | 9000 | 18400 | 4900 | |
| Total Halogens as Cl | NA | 1000 | 18400 | 540 | |
| Total Organic Halogens as Cl | NA | | | 25 or individual halogenated organics listed below | |
| Polychlorinated biphenyls, total [Arocolors, total] | 1336-36-3 | Nondetect | | Nondetect | 1.4 |
| Cyanide, total | 57-12-5 | Nondetect | | Nondetect | 1.0 |
| Metals: | | | | | |
| Antimony, total | 7440-36-0 | Nondetect | | ~~7.9~~12 | |

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| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Arsenic, total | 7440-38-2 | Nondetect | | 0.23 | |
| Barium, total | 7440-39-3 | Nondetect | | 23 | |
| Beryllium, total | 7440-41-7 | Nondetect | | 1.2 | |
| Cadmium, total | 7440-43-9 | | Nondetect | ~~1.2~~ | 1.2 |
| Chromium, total | 7440-47-3 | Nondetect | | 2.3 | |
| Cobalt | 7440-48-4 | Nondetect | | 4.6 | |
| Lead, total | 7439-92-1 | 57 | 18100 | 31 | |

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| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Manganese | 7439-96-5 | Nondetect | | 1.2 | |
| Mercury, total | 7439-97-6 | Nondetect | | 0.245 | |
| Nickel, total | 7440-02-0 | 106 | 18400 | 58 | |
| Selenium, total | 7782-49-2 | Nondetect | | 0.1523 | |
| Silver, total | 7440-22-4 | Nondetect | | 2.3 | |
| Thallium, total | 7440-28-0 | Nondetect | | 23 | |
| Hydrocarbons: | | | | | |
| Benzo[a]anthracene | 56-55-3 | Nondetect | | 11002400 | |

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| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Benzene | 71-43-2 | 8000 | 19600 | 4100 | |
| Benzo[b]fluoranthene | 205-99-2 | Nondetect | | ~~960~~2400 | |
| Benzo[k]fluoranthene | 207-08-9 | Nondetect | | ~~1900~~2400 | |
| Benzo[a]pyrene | 50-32-8 | Nondetect | | ~~960~~2400 | |
| Chrysene | 218-01-9 | Nondetect | | ~~1400~~2400 | |
| Dibenzo[a,h]anthracene | 53-70-3 | Nondetect | | ~~960~~2400 | |
| 7,12-Dimethylbenz[a]anthracene | 57-97-6 | Nondetect | | ~~1900~~2400 | |
| Fluoranthene | 206-44-0 | Nondetect | | ~~1900~~2400 | |
| Indeno(1,2,3-cd)pyrene | 193-39-5 | Nondetect | | ~~960~~2400 | |

Table 7: Detection and Detection Limit Values for Comparable Fuel Specification

| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| 3-Methylcholanthrene | 56-49-5 | Nondetect | | ~~1900~~2400 | |
| Naphthalene | 91-20-3 | 6200 | 19400 | 3200 | |
| Toluene | 108-88-3 | 69000 | 19400 | 36000 | |
| Oxygenates: | | | | | |
| Acetophenone | 98-86-2 | Nondetect | | ~~1900~~2400 | |
| Acrolein | 107-02-8 | Nondetect | | ~~37~~39 | |
| Allyl alcohol | 107-18-6 | Nondetect | | 30 | |
| Bis(2-ethylhexyl)phthalate [Di-2-ethylhexyl phthalate] | 117-81-7 | Nondetect | | ~~1900~~2400 | |
| Butyl benzyl phthalate | 85-68-7 | Nondetect | | ~~1900~~2400 | |

Table 7: Detection and Detection Limit Values for Comparable Fuel Specification

| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| o-Cresol [2-Methyl phenol] | 95-48-7 | Nondetect | | ~~220~~2400 | |
| m-Cresol [3-Methyl phenol] | 108-39-4 | Nondetect | | ~~220~~2400 | |
| p-Cresol [4-Methyl phenol] | 106-44-5 | Nondetect | | ~~220~~2400 | |
| Di-n-butyl phthalate | 84-74-2 | Nondetect | | ~~1900~~2400 | |
| Diethyl phthalate | 84-66-2 | Nondetect | | ~~1900~~2400 | |
| 2,4-Dimethylphenol | 105-67-9 | Nondetect | | ~~1900~~2400 | |
| Dimethyl phthalate | 131-11-3 | Nondetect | | ~~1900~~2400 | |
| Di-n-octyl phthalate | 117-84-0 | Nondetect | | ~~960~~2400 | |

Table 7: Detection and Detection Limit Values for Comparable Fuel Specification

| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Endothall | 145-73-3 | Nondetect | | 100 | |
| Ethyl methacrylate | 97-63-2 | Nondetect | | 3~~7~~9 | |
| 2-Ethoxyethanol [Ethylene glycol monoethyl ether] | 110-80-5 | Nondetect | | 100 | |
| Isobutyl alcohol | 78-83-1 | Nondetect | | 3~~7~~9 | |
| Isosafrole | 120-58-1 | Nondetect | | ~~1900~~2400 | |
| Methyl ethyl ketone [2-Butanone] | 78-93-3 | Nondetect | | 3~~7~~9 | |
| Methyl methacrylate | 80-62-6 | Nondetect | | 3~~7~~9 | |
| 1,4-Naphthoquinone | 130-15-4 | Nondetect | | ~~1900~~2400 | |
| Phenol | 108-95-2 | Nondetect | | ~~1900~~2400 | |

Table 7: Detection and Detection Limit Values for Comparable Fuel Specification

| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Propargyl alcohol [2-Propyn-l-ol] | 107-19-7 | Nondetect | | 30 | |
| Safrole | 94-59-7 | Nondetect | | ~~1900~~2400 | |
| Sulfonated Organics: | | | | | |
| Carbon disulfide | 75-15-0 | Nondetect | | Nondetect | 3~~7~~9 |
| Disulfoton | 298-04-4 | Nondetect | | Nondetect | ~~1900~~2400 |
| Ethyl methanesulfonate | 62-50-0 | Nondetect | | Nondetect | ~~1900~~2400 |
| Methyl methanesulfonate | 66-27-3 | Nondetect | | Nondetect | ~~1900~~2400 |
| Phorate | 298-02-~~3~~2 | Nondetect | | Nondetect | ~~1900~~2400 |
| 1,3-Propane sultone | 1120-71-4 | Nondetect | | Nondetect | 100 |

Table 7: Detection and Detection Limit Values for Comparable Fuel Specification

| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Tetraethyldithiopyrophosphate [Sulfotepp] | 3689-24-5 | Nondetect | | Nondetect | ~~1900~~2400 |
| Thiophenol [Benzenethiol] | 108-98-5 | Nondetect | | Nondetect | 30 |
| O,O,O-Triethyl phosphorothioate | 126-68-1 | Nondetect | | Nondetect | ~~1900~~2400 |
| Nitrogenated Organics: | | | | | |
| Acetonitrile [Methyl cyanide] | 75-05-8 | Nondetect | | Nondetect | 3~~7~~9 |
| 2-Acetylaminofluorene [2-AAF] | 53-96-3 | Nondetect | | Nondetect | ~~1900~~2400 |
| Acrylonitrile | 107-13-1 | Nondetect | | Nondetect | 3~~7~~9 |
| 4-Aminobiphenyl | 92-67-1 | Nondetect | | Nondetect | ~~1900~~2400 |
| 4-Aminopyridine | 504-24-5 | Nondetect | | Nondetect | 100 |

Table 7: Detection and Detection Limit Values for Comparable Fuel Specification

| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Aniline | 62-53-3 | Nondetect | | Nondetect | ~~1900~~2400 |
| Benzidine | 92-87-5 | Nondetect | | Nondetect | ~~1900~~2400 |
| Dibenz[a,j]acridine | 224-42-0 | Nondetect | | Nondetect | ~~1900~~2400 |
| O,O-Diethyl O-pyrazinyl phosphoro-thioate [Thionazin] | 297-97-2 | Nondetect | | Nondetect | ~~1900~~2400 |
| Dimethoate | 60-51-5 | Nondetect | | Nondetect | ~~1900~~2400 |
| p-(Dimethylamino)azobenzene [4-Dimethylaminoazobenzene] | 60-11-7 | Nondetect | | Nondetect | ~~1900~~2400 |
| 3,3'-Dimethylbenzidine | 119-93-7 | Nondetect | | Nondetect | ~~1900~~2400 |
| α,α-Dimethylphenethylamine | 122-09-8 | Nondetect | | Nondetect | ~~1900~~2400 |

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| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| 3,3'-Dimethoxybenzidine | 119-90-4 | Nondetect | | Nondetect | 100 |
| 1,3-Dinitrobenzene [m-Dinitrobenzene] | 99-65-0 | Nondetect | | Nondetect | ~~1900~~2400 |
| 4,6-Dinitro-o-cresol | 534-52-1 | Nondetect | | Nondetect | ~~1900~~2400 |
| 2,4-Dinitrophenol | 51-28-5 | Nondetect | | Nondetect | ~~1900~~2400 |
| 2,4-Dinitrotoluene | 121-14-2 | Nondetect | | Nondetect | ~~1900~~2400 |
| 2,6-Dinitrotoluene | 606-20-2 | Nondetect | | Nondetect | ~~1900~~2400 |
| Dinoseb [2-sec-Butyl-4,6-dinitrophenol] | 88-85-7 | Nondetect | | Nondetect | ~~1900~~2400 |
| Diphenylamine | 122-39-4 | Nondetect | | Nondetect | ~~1900~~2400 |
| Ethyl carbamate [Urethane] | 51-79-6 | Nondetect | | Nondetect | 100 |

Table 7: Detection and Detection Limit Values for Comparable Fuel Specification

| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Ethylenethiourea (2-Imidazolidinethione) | 96-45-7 | Nondetect | | Nondetect | 110 |
| Famphur | 52-85-7 | Nondetect | | Nondetect | ~~1900~~2400 |
| Methacrylonitrile | 126-98-7 | Nondetect | | Nondetect | 3~~7~~9 |
| Methapyrilene | 91-80-5 | Nondetect | | Nondetect | ~~1900~~2400 |
| Methomyl | 16752-77-5 | Nondetect | | Nondetect | 57 |
| 2-Methyllactonitrile [Acetone cyanohydrin] | 75-86-5 | Nondetect | | Nondetect | 100 |
| Methyl parathion | 298-00-0 | Nondetect | | Nondetect | ~~1900~~2400 |
| MNNG (N-Metyl-N-nitroso-N'-nitroguanidine) | 70-25-7 | Nondetect | | Nondetect | 110 |

Table 7: Detection and Detection Limit Values for Comparable Fuel Specification

| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| 1-Naphthylamine, [α-Naphthylamine] | 134-32-7 | Nondetect | | Nondetect | ~~1900~~2400 |
| 2-Naphthylamine, [β-Naphthylamine] | 91-59-8 | Nondetect | | Nondetect | ~~1900~~2400 |
| Nicotine | 54-11-5 | Nondetect | | Nondetect | 100 |
| 4-Nitroaniline, [p-Nitroaniline] | 100-01-6 | Nondetect | | Nondetect | ~~1900~~2400 |
| Nitrobenzene | 98-95-3 | Nondetect | | Nondetect | ~~1900~~2400 |
| p-Nitrophenol, [p-Nitrophenol] | 100-02-7 | Nondetect | | Nondetect | ~~1900~~2400 |
| 5-Nitro-o-toluidine | 99-55-8 | Nondetect | | Nondetect | ~~1900~~2400 |
| N-Nitrosodi-n-butylamine | 924-16-3 | Nondetect | | Nondetect | ~~1900~~2400 |
| N-Nitrosodiethylamine | 55-18-5 | Nondetect | | Nondetect | ~~1900~~2400 |

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| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| N-Nitrosodiphenylamine, [Diphenylnitrosamine] | 86-30-6 | Nondetect | | Nondetect | ~~1900~~2400 |
| N-Nitroso-N-methylethylamine | 10595-95-6 | Nondetect | | Nondetect | ~~1900~~2400 |
| N-Nitrosomorpholine | 59-89-2 | Nondetect | | Nondetect | ~~1900~~2400 |
| N-Nitrosopiperidine | 100-75-4 | Nondetect | | Nondetect | ~~1900~~2400 |
| N-Nitrosopyrrolidine | 930-55-2 | Nondetect | | Nondetect | ~~1900~~2400 |
| 2-Nitropropane | 79-46-9 | Nondetect | | Nondetect | 30 |
| Parathion | 56-38-2 | Nondetect | | Nondetect | ~~1900~~2400 |
| Phenacetin | 62-44-2 | Nondetect | | Nondetect | ~~1900~~2400 |
| 1,4-Phenylenediamine, [p-Phenylenediamine] | 106-50-3 | Nondetect | | Nondetect | ~~1900~~2400 |

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| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| N-Phenylthiourea | 103-85-5 | Nondetect | | Nondetect | 57 |
| 2-Picoline [alpha-Picoline] | 109-06-8 | Nondetect | | Nondetect | ~~1900~~2400 |
| Propylthioracil [6-Propyl-2-thiouracil] | 51-52-5 | Nondetect | | Nondetect | 100 |
| Pyridine | 110-86-1 | Nondetect | | Nondetect | ~~1900~~2400 |
| Strychnine | 57-24-9 | Nondetect | | Nondetect | 100 |
| Thioacetamide | 62-55-5 | Nondetect | | Nondetect | 57 |
| Thiofanox | 39196-18-4 | Nondetect | | Nondetect | 100 |
| Thiourea | 62-56-6 | Nondetect | | Nondetect | 57 |
| Toluene-2,4-diamine [2,4-Diaminotoluene] | 95-80-7 | Nondetect | | Nondetect | 57 |

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|---|---|---|---|---|---|
| Toluene-2,6-diamine [2,6-Diaminotoluene] | 823-40-5 | Nondetect | | Nondetect | 57 |
| o-Toluidine | 95-53-4 | Nondetect | | Nondetect | ~~2200~~2400 |
| p-Toluidine | 106-49-0 | Nondetect | | Nondetect | 100 |
| 1,3,5-Trinitrobenzene, [sym-Trinitrobenzene] | 99-35-4 | Nondetect | | Nondetect | ~~2000~~2400 |
| Halogenated Organics~~[b]~~: | | | | | |
| Allyl chloride | 107-05-1 | Nondetect | | Nondetect | 3~~7~~9 |
| Aramite | 1~~0~~40-57-8 | Nondetect | | Nondetect | ~~1900~~2400 |
| Benzal chloride [Dichloromethyl benzene] | 98-87-3 | Nondetect | | Nondetect | 100 |

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| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Benzyl chloride | 100-44-77 | Nondetect | | Nondetect | 100 |
| Bis(2-chloroethyl)ether [Dichloroethyl ether] | 111-44-4 | Nondetect | | Nondetect | ~~1900~~2400 |
| Bromoform [Tribromomethane] | 75-25-2 | Nondetect | | Nondetect | 3~~7~~9 |
| Bromomethane [Methyl bromide] | 74-83-9 | Nondetect | | Nondetect | 3~~7~~9 |
| 4-Bromophenyl phenyl ether [p-Bromo diphenyl ether] | 101-55-3 | Nondetect | | Nondetect | ~~1900~~2400 |
| Carbon tetrachloride | 56-23-5 | Nondetect | | Nondetect | 3~~7~~9 |
| Chlordane | 57-74-9 | Nondetect | | Nondetect | 14 |
| p-Chloroaniline | 106-47-8 | Nondetect | | Nondetect | ~~1900~~2400 |
| Chlorobenzene | 108-90-7 | Nondetect | | Nondetect | 3~~7~~9 |

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|---|---|---|---|---|---|
| Chlorobenzilate | 510-15-6 | Nondetect | | Nondetect | ~~1900~~2400 |
| p-Chloro-m-cresol | 59-50-7 | Nondetect | | Nondetect | ~~1900~~2400 |
| 2-Chloroethyl vinyl ether | 110-75-8 | Nondetect | | Nondetect | 3~~7~~9 |
| Chloroform | 67-66-3 | Nondetect | | Nondetect | 3~~7~~9 |
| Chloromethane [Methyl chloride] | 74-87-3 | Nondetect | | Nondetect | 3~~7~~9 |
| 2-Chloronaphthalene [beta-Chloronaphthalene] | 91-58-7 | Nondetect | | Nondetect | ~~1900~~2400 |
| 2-Chlorophenol [o-Chlorophenol] | 95-57-8 | Nondetect | | Nondetect | ~~1900~~2400 |
| Chloroprene [2-Chloro-1,3-butadiene] | 1126-99-8 | Nondetect | | Nondetect | 3~~7~~9 |
| 2,4-D [2,4-Dichlorophenoxyacetic acid] | 94-75-7 | Nondetect | | Nondetect | 7.0 |

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| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Diallate | 2303-16-4 | Nondetect | | Nondetect | ~~1900~~2400 |
| 1,2-Dibromo-3-chloropropane | 96-12-8 | Nondetect | | Nondetect | 3~~7~~9 |
| 1,2-Dichlorobenzene [o-Dichlorobenzene] | 95-50-1 | Nondetect | | Nondetect | ~~1900~~2400 |
| 1,3-Dichlorobenzene [m-Dichlorobenzene] | 541-73-1 | Nondetect | | Nondetect | ~~1900~~2400 |
| 1,4-Dichlorobenzene [p-Dichlorobenzene] | 106-46-7 | Nondetect | | Nondetect | ~~1900~~2400 |
| 3,3'-Dichlorobenzidine | 91-94-1 | Nondetect | | Nondetect | ~~1900~~2400 |
| Dichlorodifluoromethane [CFC-12] | 75-71-8 | Nondetect | | Nondetect | 3~~7~~9 |
| 1,2-Dichloroethane [Ethylene dichloride] | 107-06-2 | Nondetect | | Nondetect | 3~~7~~9 |
| 1,1-Dichloroethylene [Vinylidene chloride] | 75-35-4 | Nondetect | | Nondetect | 3~~7~~9 |

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| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Dichloromethoxy ethane [Bis(2-chloroethoxy)methane | 111-91-1 | Nondetect | | Nondetect | ~~1900~~2400 |
| 2,4-Dichlorophenol | 120-83-2 | Nondetect | | Nondetect | ~~1900~~2400 |
| 2,6-Dichlorophenol | 87-65-0 | Nondetect | | Nondetect | ~~1900~~2400 |
| 1,2-Dichloropropane [Propylene dichloride] | 78-87-5 | Nondetect | | Nondetect | 3~~7~~9 |
| cis-1,3-Dichloropropylene | 10061-01-5 | Nondetect | | Nondetect | 3~~7~~9 |
| trans-1,3-Dichloropropylene | 10061-02-6 | Nondetect | | Nondetect | 3~~7~~9 |
| 1,3-Dichloro-2-propanol | 96-23-1 | Nondetect | | Nondetect | 30 |
| Endosulfan I | 959-98-8 | Nondetect | | Nondetect | 1.4 |

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| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Endosulfan II | 33213-65-9 | Nondetect | | Nondetect | 1.4 |
| Endrin | 72-20-8 | Nondetect | | Nondetect | 1.4 |
| Endrin aldehyde | 7421-93-4 | Nondetect | | Nondetect | 1.4 |
| Endrin Ketone | 53494-70-5 | Nondetect | | Nondetect | 1.4 |
| Epichlorohydrin [1-Chloro-2,3-epoxy propane] | 106-89-8 | Nondetect | | Nondetect | 30 |
| Ethylidene dichloride [1,1-Dichloroethane] | 75-34-3 | Nondetect | | Nondetect | 3~~7~~9 |
| 2-Fluoroacetamide | 640-19-7 | Nondetect | | Nondetect | 100 |
| Heptachlor | 76-44-8 | Nondetect | | Nondetect | 1.4 |

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| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Heptachlor epoxide | 1024-57-3 | Nondetect | | Nondetect | 2.8 |
| Hexachlorobenzene | 118-74-1 | Nondetect | | Nondetect | ~~1900~~2400 |
| Hexachloro-1,3-butadiene [Hexachlorobutadiene] | 87-68-3 | Nondetect | | Nondetect | ~~1900~~2400 |
| Hexachlorocyclopentadiene | 77-47-4 | Nondetect | | Nondetect | ~~1900~~2400 |
| Hexachloroethane | 67-72-1 | Nondetect | | Nondetect | ~~1900~~2400 |
| Hexachlorophene | 70-30-4 | Nondetect | | Nondetect | ~~1000~~59000 |
| Hexachloropropene [Hexachloropropylene] | 1888-71-7 | Nondetect | | Nondetect | ~~1900~~2400 |
| Isodrin | 465-73-6 | Nondetect | | Nondetect | ~~1900~~2400 |

Table 7: Detection and Detection Limit Values for Comparable Fuel Specification

| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Kepone [Chlordecone] | 143-50-0 | Nondetect | | Nondetect | ~~3600~~4700 |
| Lindane [gamma-Hexachlorocyclohexane] [gamma-BHC] | 58-89-9 | Nondetect | | Nondetect | 1.4 |
| Methylene chloride [Dichloromethane] | 75-09-2 | Nondetect | | Nondetect | 3~~7~~9 |
| 4,4'-methylene-bis(2-chloroaniline) | 101-14-4 | Nondetect | | Nondetect | 100 |
| Methyl iodide [Iodomethane] | 74-88-4 | Nondetect | | Nondetect | 3~~7~~9 |
| Pentachlorobenzene | 608-93-5 | Nondetect | | Nondetect | ~~1900~~2400 |
| Pentachloroethane | 76-01-7 | Nondetect | | Nondetect | 3~~7~~9 |
| Pentachloronitrobenzene [PCNB] [Quintobenzene] [Quintozene] | 8~~6~~2-68-8 | Nondetect | | Nondetect | ~~1900~~2400 |
| Pentachlorophenol | 87-86-5 | Nondetect | | Nondetect | ~~1900~~2400 |

Table 7: Detection and Detection Limit Values for Comparable Fuel Specification

| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| Pronamide | 23950-58-5 | Nondetect | | Nondetect | ~~1900~~2400 |
| Silvex [2,4,5-Trichlorophenoxypropionic acid] | 93-72-1 | Nondetect | | Nondetect | 7.0 |
| 2,3,7,8-Tetrachlorodibenzo-p-dioxin [2,3,7,8-TCDD] | 1746-01-6 | Nondetect | | Nondetect | 30 |
| 1,2,4,5-Tetrachlorobenzene | 95-94-3 | Nondetect | | Nondetect | ~~1900~~2400 |
| 1,1,2,2-Tetrachloroethane | 79-34-5 | Nondetect | | Nondetect | 3~~7~~9 |
| Tetrachloroethylene [Perchloroethylene] | 127-18-4 | Nondetect | | Nondetect | 3~~7~~9 |
| 2,3,4,6-Tetrachlorophenol | 58-90-2 | Nondetect | | Nondetect | ~~1900~~2400 |
| 1,2,4-Trichlorobenzene | 120-82-1 | Nondetect | | Nondetect | ~~1900~~2400 |
| 1,1,1-Trichloroethane [Methyl chloroform] | 71-55-6 | Nondetect | | Nondetect | 3~~7~~9 |

Table 7: Detection and Detection Limit Values for Comparable Fuel Specification

| Chemical name | CAS Number | Composite Value (mg/kg) | Heating Value (BTU/lb) | Concentration limit (mg/kg at required 10,000 BTU/lb) | Minimum required detection limit (mg/kg) |
|---|---|---|---|---|---|
| 1,1,2-Trichloroethane [Vinyl trichloride] | 79-00-5 | Nondetect | | Nondetect | 3~~7~~9 |
| Trichloroethylene | 79-01-6 | Nondetect | | Nondetect | 3~~7~~9 |
| Trichlorofluoromethane [Trichlormonofluoromethane] | 75-69-4 | Nondetect | | Nondetect | 3~~7~~9 |
| 2,4,5-Trichlorophenol | 95-95-4 | Nondetect | | Nondetect | ~~1900~~2400 |
| 2,4,6-Trichlorophenol | 88-06-02 | Nondetect | | Nondetect | ~~1900~~2400 |
| 1,2,3-Trichloropropane | 96-18-4 | Nondetect | | Nondetect | 3~~7~~9 |
| Vinyl Chloride | 75-01-4 | Nondetect | | Nondetect | 3~~7~~9 |

~~[a] Absence of PCBs can also be demonstrated by using appropriate screening methods, e.g., immunoassay kit for PCB in oils (Method 4020) or colorimetric analysis for PCBs in oil (Method 9079).~~

~~[b] Some minimum required detection limits are above the total halogen limit of 540 ppm. The detection limits reflect what was achieved during EPA testing and analysis and also analytical complexity associated with measuring all halogen compounds on LAC 33:V.Chapter 31.Table 1 at low levels. EPA recognizes that in practice the presence of these compounds will be functionally limited by the molecular weight and the total halogen limit of 540 ppm.~~

Notes:
NA – Not Applicable

* * *

[See Prior Text in D – D.13]

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2180 et seq.

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of Waste Services, Hazardous Waste Division, LR 25:489 (March 1999), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 27:**.